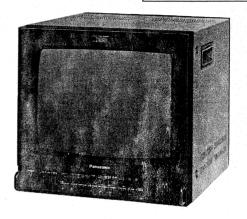
Service Man

Colour Video Monitor

BT-H1450Y/YG

G16M Chassis

YG.....U.K. Only



The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

System:

Interlaced, PAL/SECAM/NTSC

3.58/NTSC 4.43

Power Source:

 $220-240 \,\mathrm{V} \sim 50 \,\mathrm{Hz}$

(240 V U.K. Only)

Power Consumption: 85W

Picture Tube:

14" (36cm) diagonal

High Resolution CRT 0.31 mm Dot Pitch, 90-degree deflection

Speaker Output:

Video/Audio Terminals: (LINE A/LINE B)

Video Input;

1.0Vp-p $\pm 2dB$, 75 Ω or HIGH impedance (Auto), BNC type

connector

Video Through

Out; Automatic Termination Opener,

BNC type connector

Audio Input;

0.5Vrms, $22k\Omega$ or more, phono type connector

Audio Through

Out:

Phono type connector

S-Video Input;

Y signal 1.0Vp-p, C signal 0.285Vp-p, 75Ω or HIGH impedance (Manual), MINI DIN

4P type connector

S-Video Output; Y signal 1.0Vp-p, C signal

0.285Vp-p, 75Ω or HIGH impedance (Manual), MINI DIN

4P type connector

VTR Terminal:

Video Input: Audio Input; 1.0Vp-p \pm 2dB, 75Ω

1.0Vrms, $22k\Omega$ or more,

8 pin connector

Component: (RGB & YP_BP_R switchable)

RGB:

R; $0.7\text{Vp-p} \pm 2\text{dB}$, 75Ω , BNC type connector

0.7Vp-p ± 2 dB, 75Ω , BNC type connector

 $0.7Vp-p \pm 2dB$, 75Ω , BNC type connector

YP_BP_R:

Y; 1.0Vp-p \pm 2dB, 75 Ω , BNC type connector

 P_B ; 0.7Vp-p $\pm 2dB$, 75 Ω . BNC type connector

 P_R ; 0.7Vp-p $\pm 2dB$, 75 Ω , BNC type connector

Sync.:

0.3Vp-p ± 2 dB, 75Ω ,

Audio:

BNC type connector 0.5 Vrms, $22 \text{k}\Omega$ or more, phono type connector

Panasonic

Ext. Sync.:

4.0Vp-p $^{+6}_{-26}$ dB negative, 75 Ω

with automatic loop-through output, BNC connector (2)

Resolution:

750 TV lines (Horizontal)

Picture Linearity:

Vertical within ±5% Horizontal within 土7%

Frequency Response:

Line:

100Hz to 8MHz ±3dB

RGB;

100Hz to 8MHz ±3dB

AFC Time Constant; 0.8 ms; FAST

3 ms; SLOW

Retrace Time:

Horizontal retrace time

within 10µs

Vertical retrace time

within 1 ms

Colour Temperature:

6500K, 9300K

Convergence Error:

Central area; Periphery;

Less than 0.5 mm

Less than 0.7 mm

Central area



Chromacity Cordinate:

		x	у
	R	0.640 ±0.010	0.330 ±0.010
EBU	G	0.290 ±0.010	0.600 ±0.010
	В	0.150 ±0.007	0.060 ±0.007

Dimensions:

Width:

356 mm

Depth; Height; 419mm 341 mm

Weight:

Operating

14.5kg

Temperature: $0^{\circ}\text{C} \sim +40^{\circ}\text{C} (32^{\circ}\text{F} \sim 104^{\circ}\text{F})$

Operating

Humidity:

20%~80%

Warm Up:

30 minutes to meet

specifications

Accessory:

AC Power cord

BT-H1450Y; TSX3104

BT-H1450YG; TSX3105

Option:

Rack Mounting Kit

(BA-131)

Specifications are subject to change without notice. Weight and dimensions shown are approximate.

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Safety Precaution

GENERAL GUIDELINES

- 1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
- 2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
- 4. Before turning the monitor on, measure the resistance between B+ line and cold side chassis earth. Connect the ⊕ side of an ohrmmeter to the B+ lines, and the ⊕ side to chassis earth. Each line should have more resistance than specified, as follows:

B+Line	Minimum Resistance
103 V (IC804 ①)	100k Ω
20V (IC751 ③)	3k Ω
18.5V (TPA85)	50 k Ω
15V (IC802 ①)	100Ω
12V (IC802 ③)	100Ω

- 5. When the monitor is not used for a long period of time, unplug the power cord from the AC outlet.
- 6. Potentials, as high as 24.0kV±1kV are present when this monitor is in operation. Operation of the monitor without the rear cover involves the danger of a shock hazard from the monitor power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to chassis earth before handling the tube.
- 7. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

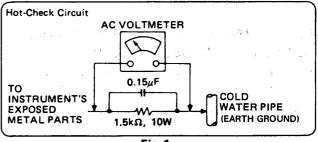
- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Turn on the monitor's power switch.
- Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the monitor, such as screwheads, connectors, control shafts, etc.

When the exposed metallic part has a return path to the chassis, the reading should be more than $1M\Omega$.

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

LEAKAGE CURRENT HOT CHECK (See Fig. 1)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5 k Ω , 10 watt resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Fig. 1.
- 3. Use a high impedance AC voltage meter to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 500 µÅ. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the monitor should be repaired and rechecked before it is returned to the customer.



X-RADIATION

- WARNING: 1. The potential source of X-Radiation in Monitor set is the High Voltage section and picture tube.
 - 2. When using a picture tube test jig for service, make sure that the jig is capable of handling 25.0 kV without causing X-Radiation.

NOTE: It is important to use an accurate, periodically calibrated high voltage meter.

- 1. Turn the Brightness control (R5115), the Contrast control (R5111) and the RGB Contrast control (R5132) fully counterclockwise.
- 2. Measure the High Voltage. The meter (electrostatic type) reading should indicate 24.0kV±1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- 3. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

HORIZONTAL OSC. DISABLE CIRCUIT TEST

This test must be made as a final check before the set is returned to the customer.

- 1. With the rear cover removed, supply a nominal 120V AC to the set, turn on the power switch.
- 2, Set the customer controls to their normal operating position.
- 3. Add DC voltage (+25V) to pin 4 of IC551.
- 4. Confirm that the picture falls out of horizontal sync.
- 5. If this does not occur, the Horizontal Osc. Disable Circuit is not operating. Follow the Horizontal Oscillator Disable Circuit Repair Procedures before the set is returned to customer.

REPAIR PROCEDURES OF HORIZONTAL OSCILLATOR DISABLE CIRCUIT

- 1. Connect a DC voltmeter between capacitor C515 \oplus on the A-board and chassis earth. If nearly +24.7V is not (2) present on that point, find the cause. Check R521, C515 and D558.
- 2. Connect a DC voltmeter between pin (5) of IC501 on the A-board and chassis earth. If nearly +3.0V is not present on that point, check R509, R510, R512, R542, IC551 and IC501.
- 3. Carefully check the above specified parts and related circuits and parts. When the circuit is repaired, the Horizontal Oscillator Disable Circuit Test must be made again.

Circuit Explanation

HORIZONTAL OSCILLATOR DISABLE CIRCUIT

The positive DC voltage supplied from the cathode of D558 for monitoring the high voltage is applied to pin 4 of IC551 and to the base of Q903 through R909.

The voltage at the emitter of Q903 is regulated by Zener Diode D901. Under normal conditions, the voltage applied across the base and emitter of Q903 is not sufficient to cause emitter current to flow and holds the transistor cut off.

If the high voltage exceeds the specified level, the positive DC voltage supplied from the cathode of D558 increases. The voltage through D558 is dividing by R909 and R908, and applied to the base of Q903. If Vbe is nearly more than +0.7V, the transistor Q903 turns on, and the collector voltage of Q903 lowers which is connected to the base of Q902.

Therefore Q902 turns on, and the collector voltage of Q902 increases, which is connected to the base of Q901. Consequently Q901 turns on, and collector current of Q901, which is connected to the pin (15) of IC501, begins This causes the horizontal to flow simultaneously. oscillator frequency to increase, and also causes loss of horizontal synchronization. (Fig. 2)

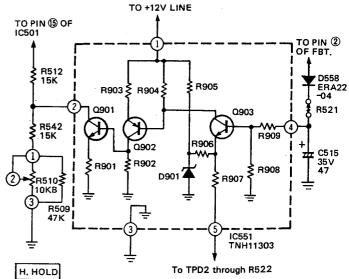
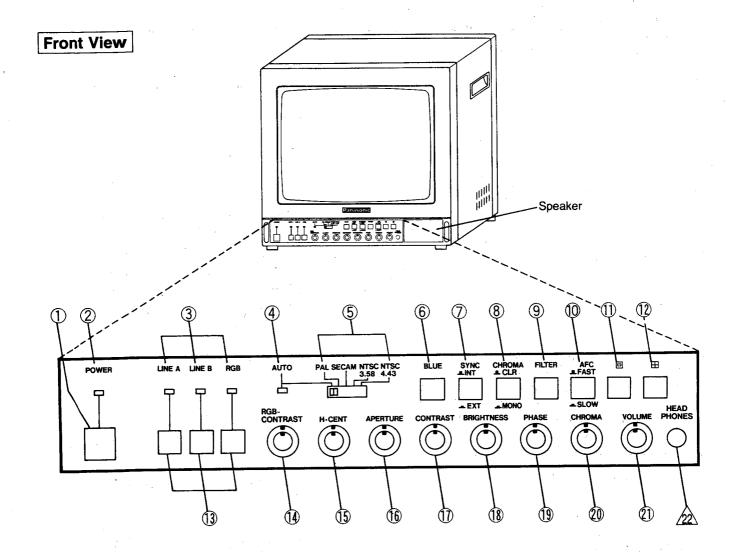


Fig. 2

Location of Controls and Switches



- 1 Power Switch Power ON/OFF
- Power Indicator This indicator will be light when power is ON.
- 3 Input indicators
 These indicators will be light when it is selected input channel.
- 4 Auto indicator
 This indicator will be light when TV system selector switch is AUTO mode.
- TV System Selector Switch This switch is normally set at AUTO. However, if the picture can not be received at Auto mode appropriately. Set the switch to the desired position.

6 Blue Signal Only Switch

Depress this switch to observe BLUE SIGNAL in Black and White. This makes it easier to adjust chrominance and hue (using SMPTE colour bar display) and increases visibility of video tape dropouts and playback noise.

- Sync (INT/EXT) Selector Switch
 - INT: The monitor operates on the sync signal from the displayed composite video signal.
 - EXT: The monitor operates on an external sync signal supplied from the EXT. SYNC connector on the rear panel.
- (8) Chroma Switch

Depress this switch to observe Black and White picture.

(9) Filter Selector Switch

ON or OFF the switch so that the picture becomes better.

Broad casting system	Switch position	Kind of filter	Purpose
NEGO	FILTER	Comb filter: ON	This is for high horizontal resolution.
NTSC	FILTER	Trap filter: ON	This is for high vertical resolution.
	FILTER	Trap filter: ON	This is the normal colour position on PAL or SECAM signal.
PAL/SECAM	FILTER	Trap filter: OFF	Use this position with camera signal, Black/White signal, or monochrome mode on the Mode selector switch to obtain higher resolution.

10	AFC	Selector	Switch
vv	MIC	SCIECTO	OMITCH

Selects the AFC time constant.

FAST: This mode is fast enough to correct for VTR jitter. Use the position to obtain a stable playback picture from a VTR.

SLOW: This mode is slow enough to display the time base instability introduced by mechanical jitter, in the VTR playback signal.

① Underscan Switch Depress this switch for underscanning.

The display size is reduced by approximately 5% so that four corners of the raster are visible.

- (12) Horizontal/Vertical Delay Switch
 Depress this switch to observe the horizontal/
 vertical sync signal. The picture is delayed
 horizontally/vertically and the horizontal/vertical
 sync signal is displayed in the left/center of the
 screen. Picture brightness is automatically
 increased for easy observation.
- (13) Input Selector Switches
 Three signal inputs (LINE A/LINE B/RGB) can be selected.

	Decrease Increase
15)	H.CENT Control
16	Aperture ControlSoft Sharp
1	Contrast Control Decrease Increase
18	Brightness ControlDark Bright
19	Phase ControlGreen Red
20	Chroma Control

Low Colour

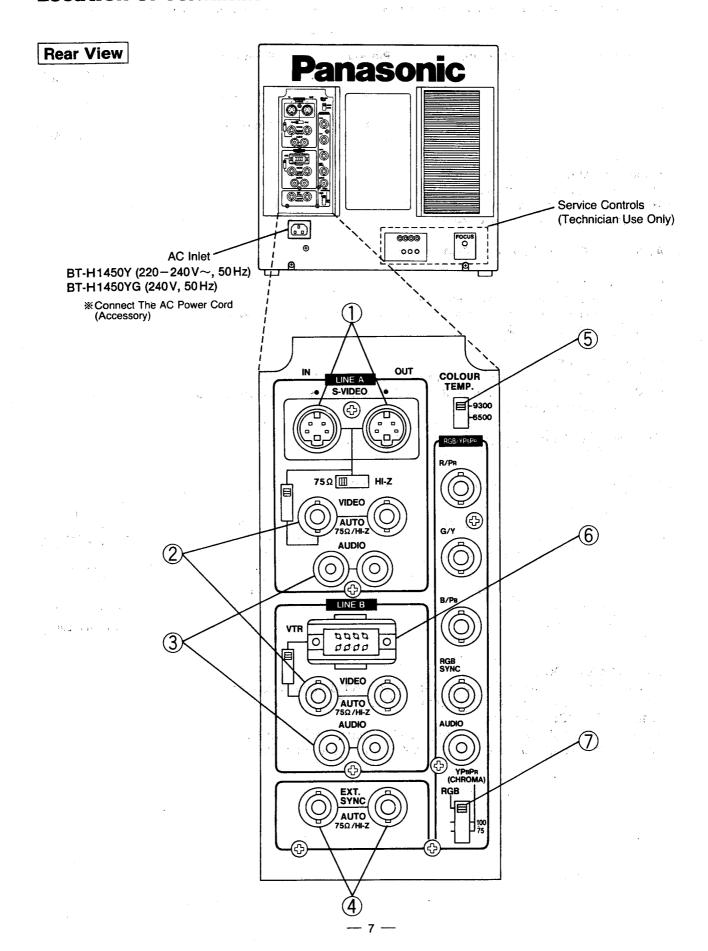
(1) Volume Control

/22 Headphones Jack

High Colour

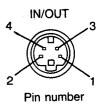
(II) RGB Contrast Control

Location of Terminals



(1) S-Video Input/Output Terminal (4 pin) Luminance signal and chroma signal input/output terminal

Pin No.	Function	Pin NO.	Function
1	Earth (Luminance)	3	Luminance
2	Earth (Chroma)	4	Chroma



(2) Video Input/Output Terminals (BNC)

These terminals have automatic termination. When BNC connectors are connected into IN and OUT terminals, the $75\,\Omega$ termination will be automatically opened.

(3) Audio Input/Output Terminals (RCA Phono)

4 EXT.SYNC Terminal

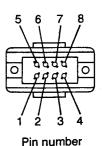
This terminal also has automatic termination. If a sync signal is input into this terminal, the monitor works to lock the selected line to this external sync signal.

5 Colour Temp. Selector

6500K: Set the colour Temp. switch to 6500K for broadcast use.
9300K: Set the colour Temp. switch to 9300K to give the colour temperature for non-broadcast use.

6 VTR Terminal (8 pin) VTR video/audio signal input

Pin No.	Function	Pin NO.	Function
1	Audio signal IN	5	Earth
2	Video signal IN	6	Earth
3	Earth	7	Earth
4		8	



(7) Chromatic level Switch

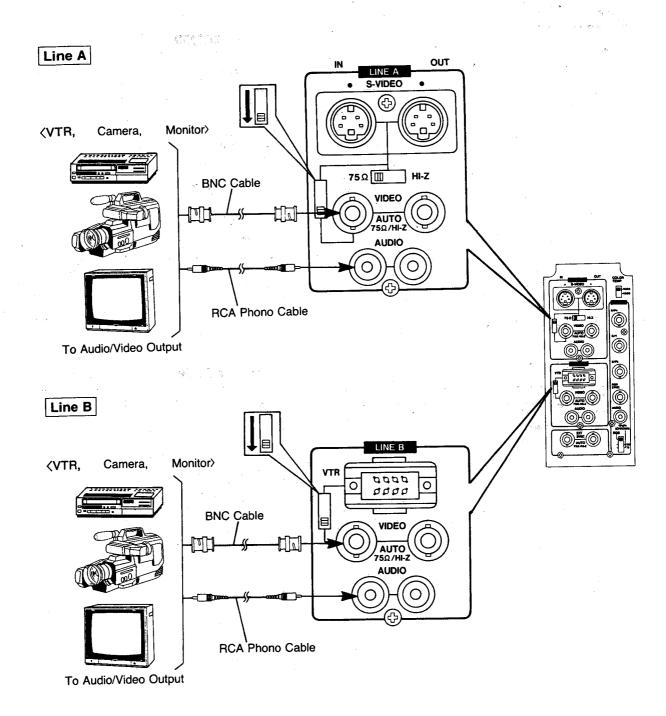
This switch is for setting chromatic level to the connected signal, when the component signal (YP_BP_R) is connected to the RGB / YP_BP_R terminals. Position RGB: RGB signal only.

Position 100: YP_BP_R for use with (MII) 100% colour bar standard system.

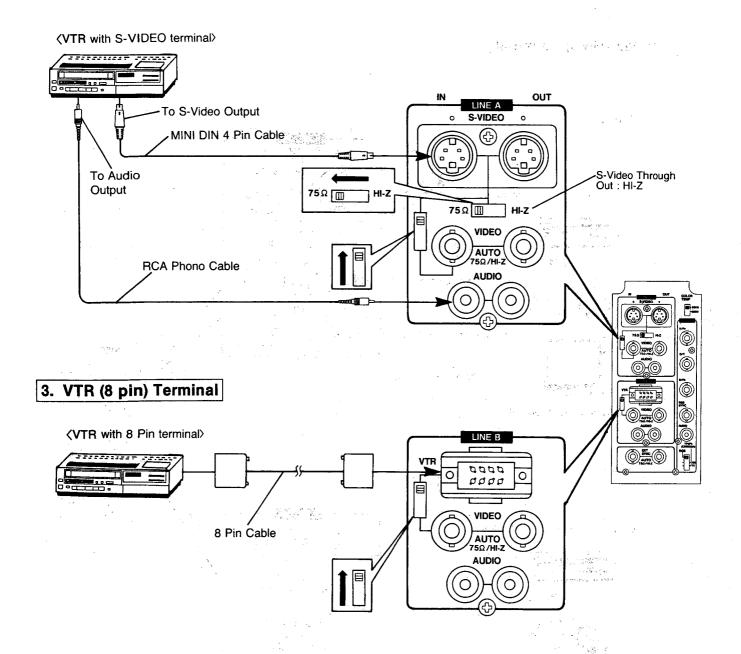
Position 75: YP_BP_R for use with 75% colour bar standard system.

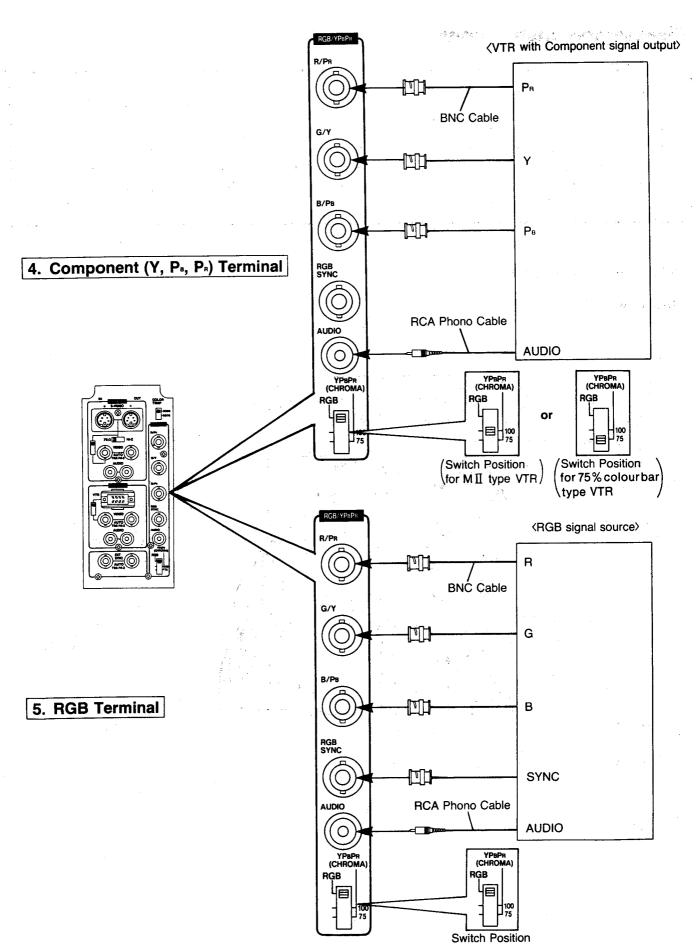
Connections

1. Video (BNC) Terminal



2. S-Video Terminal





Disassembly Instructions

-WARNING:-

- 1. When turning over a P.W. board to adjust it, be sure to lay on insulating material under it in order to prevent shorting.
- 2. P.W. boards and wires should not be pulled forcibly, but be handled carefully.
- 3. Before disassembly, remove the AC plug from the wall outlet.
- 4. When removing the cabinet take care not to damage the neck of the Picture Tube.
- 5. Printed boards and connectors should be handled with care-avoid handling them forcibly!
- 6. When handling the A-P.W. board with the power ON, there is a risk of an Electric shock if you use the COLD side heat sink. while working on the HOT side of the chassis.

CIRCUIT BOARD LAYOUT

(Rear View)

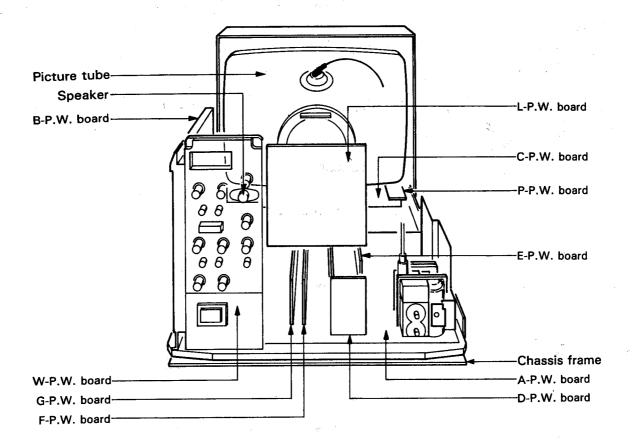
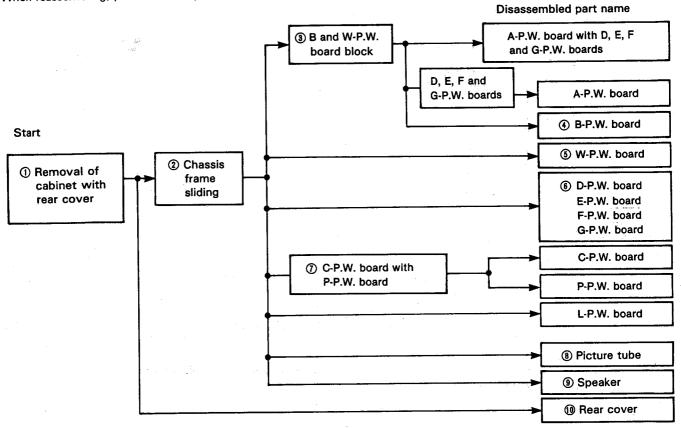


Fig. 1

DISASSEMBLY FLOWCHART

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing.

When reassembling, perform the steps in the reverse order.



1. Removal of Cabinet with Rear Cover

- 1. Remove 4 screws A.
- 2. Remove 5 screws **B**.

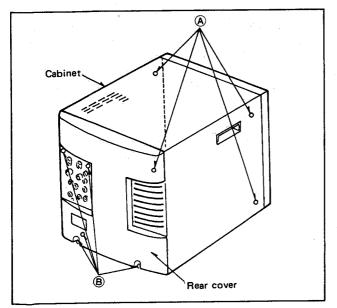


Fig. 2

2. Chassis frame sliding

Slide the chassis frame as shown.

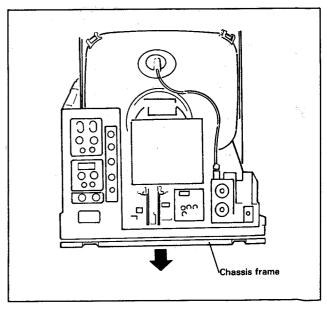


Fig. 3

T-H1450Y/YG

3. Removal of B and W-P.W. board block

1. Remove 3 screws ©.

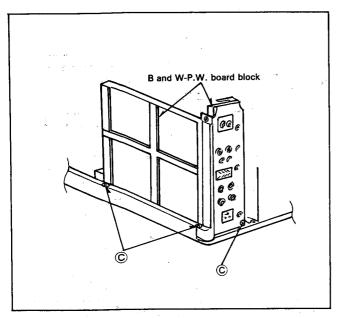


Fig. 4

2. Remove B and W-P.W. boards block while paing attention to the connectors.

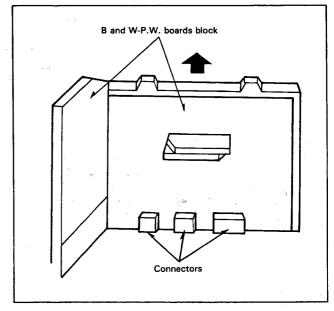


Fig. 5

4. Removal of B-P.W. board

- Remove B and W-P.W. boards block as shown in Fig. 4 and 5.
- 2. Slide B and W-P.W. boards as shown in Fig. 6.

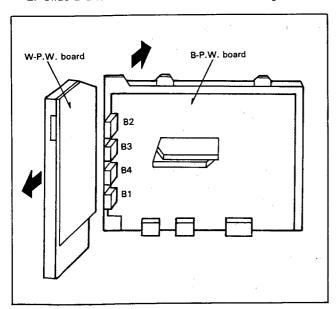


Fig. 6

5. Removal of W-P.W. board

- 1. Remove 3 screws ⁽¹⁾
- 2. Slide W-P.W. board as shown in Fig. 7.

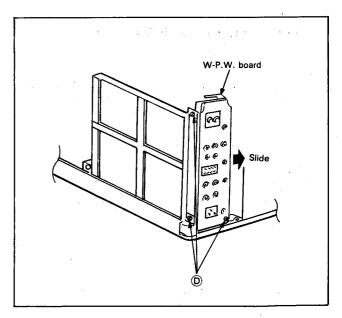


Fig. 7

6. Removal and check of D, E, F and G-P.W. boards

 Pull out the connectors of the each P.W. board (A26, A27, A29, A33, A14, A15, A16, A23 and A24 on the A-P.W. board).

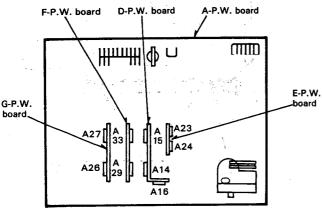


Fig. 8

* When each connector is removed open the hook by small flat screwdriver.

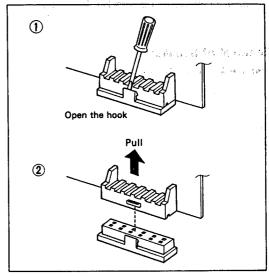


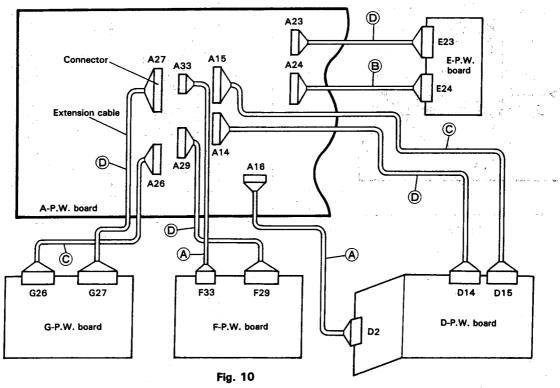
Fig. 9

2. Use the extension cable when each P.W. board is checked because those P.W. boards have no space mutually.

Necessary extension cables are as following table.

Ref. No.	Kind of extension cables	Part No.	Q'ty	
(A)	4 Pin	TZS507027	2pcs.	
®	6 Pin	TZS507028	1pc.	Length is about 30cm.
©	9 Pin	TZS507029	2pcs.	
©	10 Pin	TZS507030	4pcs.	

3. Connect each P.W. board by extension cables as shown.



— 15 —

BT-H1450Y/YG

7. Removal of C-P.W. board with P-P.W. board

- 1. Pull out 8 control knobs on the front side.
- 2. Remove 2 screws ©.
- 3. Pull out C-P.W. board with P-P.W. board.

8. Removal of Speaker

Remove 4 screws (F) as shown in Fig. 11.

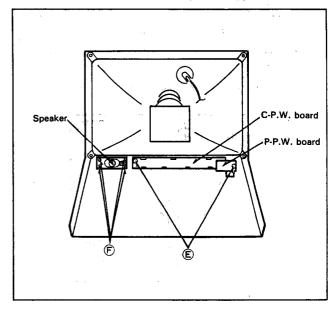


Fig. 11

9. Removal of Picture Tube

- 1. Remove L-P.W. board and the deflection yoke.
- 2. Remove 4 screws @.

L-P.W. board Deflection yoke

Fig. 12

10. Removal of Rear Cover

Remove inner 5 screws (H).

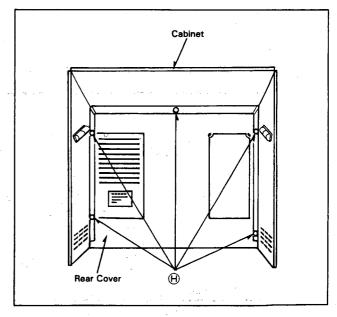


Fig. 13

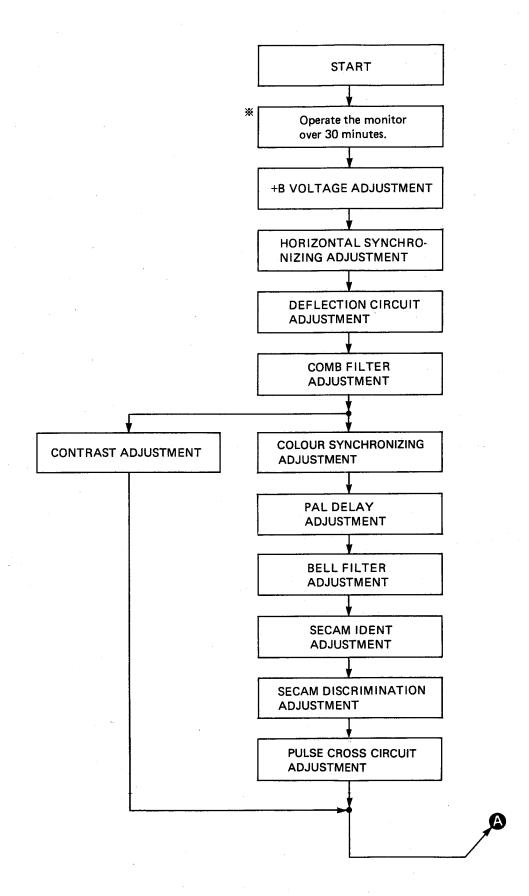
Measurements and Adjustments

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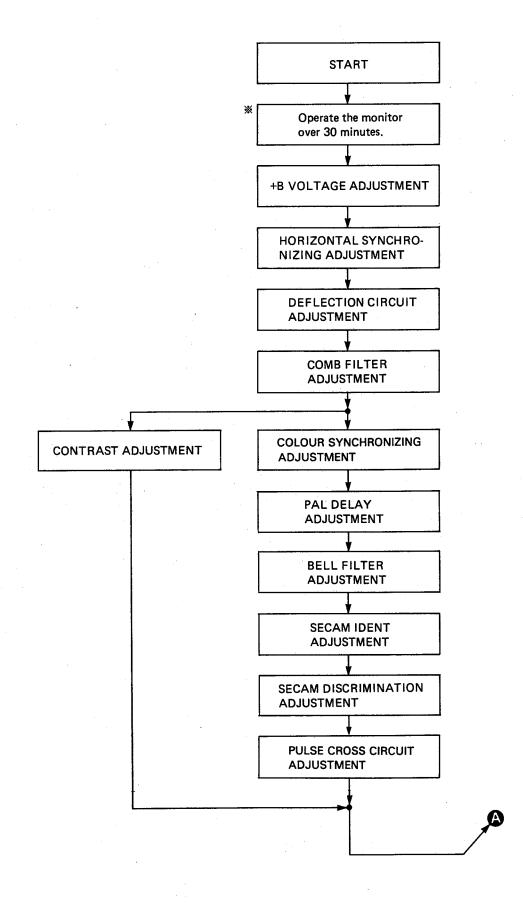
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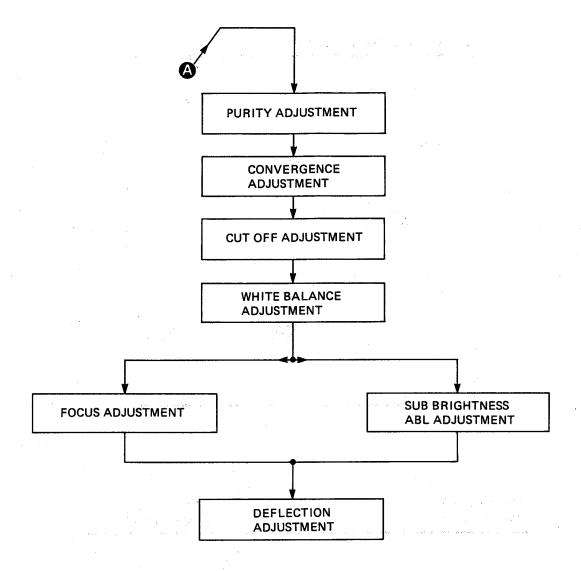
* NOTE: Before measuring and adjusting, operate the monitor over 30 minutes.

ADJUSTMENT PROCEDURE FLOWCHART



ADJUSTMENT PROCEDURE FLOWCHART



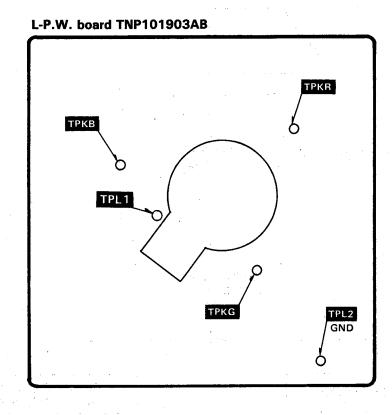


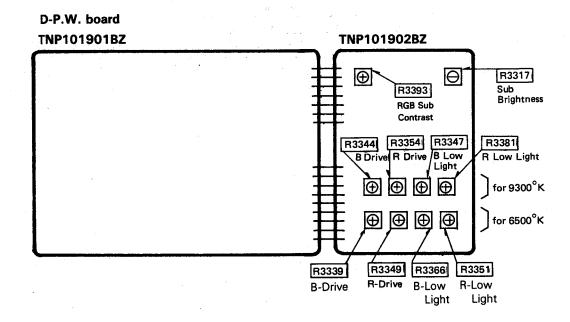
B-P.W. board

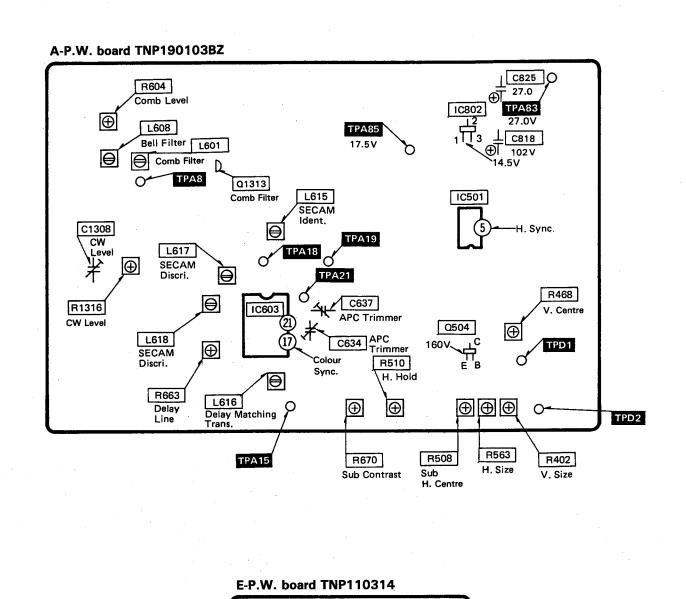
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LOCATION OF TEST POINTS AND CONTROLS

Note: When measuring and adjusting, it is convenient to use these pages.

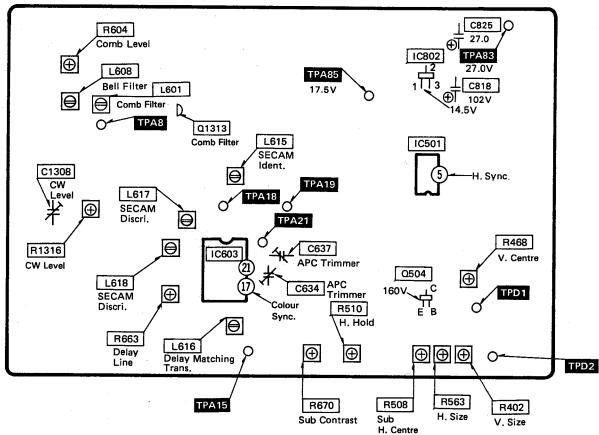


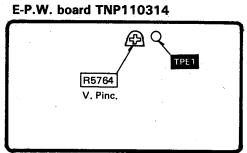




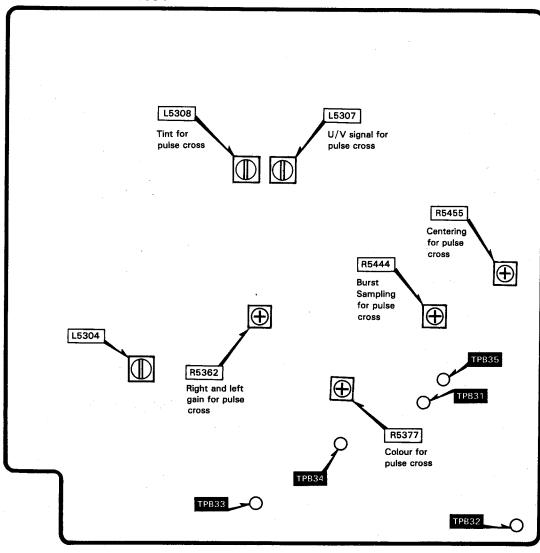
R5764 V. Pinc.

A-P.W. board TNP190103BZ





B-P.W. board TNP110534



CAUTION FOR SERVICING

This model has the HOT and COLD section with the power supply section. Therefore following precautions are necessary.

1. Do not touch the HOT section and the COLD section at the same time. You may receive an electric shock.

Unless otherwise noted, a transformer core with has two tuning peak points should be adjusted at the lower position as shown in below Fig. 1.

- 2. Do not short the HOT section to the COLD section. This could blow the fuse or even damage parts.
- Never measure the HOT section and the COLD section at the same time when using tools such as oscilloscopes or multimeters.
- 4. Always unplug the unit before beginning any operation such as removing the chassis.

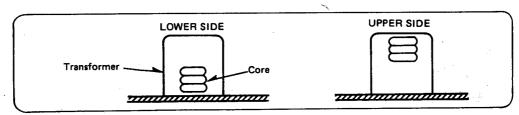


Fig. 1

For each adjustment, when a connector or a short jumper is connected or disconnected, first set the power switch to the OFF position.

+B VOLTAGE ADJUSTMENT (A-P.W. board)

1. EQUIPMENT TO USED

Digital Voltmeter Tuner Unit.

2. ADJUSTMENT PROCEDURE

- 1. Input a Black Level pattern to VIDEO input terminal.
- 2. Set the Brightness and Contrast control to minimum, and delete the raster.
- Connect a Digital Voltmeter between each +B points and the earth as follows.

4. Confirm that the indicated measurement points for the specificated voltage.

Measu	Voltage	
+B2 (C818 ⊕)		102V±2.0V
+B1 (Q504 ©)	H. Sync. Plate (earth)	160V±10V
+B3 (C825 ⊕)		27.0V±2.0V
+B4 (TPA85)		17.5V±2.0V
+B5 (IC802 ①)		14.5V±1.0V
+B6 (IC802 ③)		12.0V±0.5V

HORIZONTAL SYNCHRONIZING ADJUSTMENT (A.P.W. board)

1. EQUIPMENT TO USED

Short Jumper

2. ADJUSTMENT PROCEDURE

- 1. Input a Monoscope pattern to VIDEO input terminal.
- 2. Connect a short jumper between IC501 (5) and 12V line.
- 3. Adjust R510 (H. Hold) so that the Picture stabilizes.

DEFLECTION CIRCUIT ADJUSTMENT (A/D-P.W. Board)

1. EQUIPMENT TO USED

High Voltmeter

DC Current Meter

AC-RMS voltmeter

2. ADJUSTMENT PROCEDURE

- 1. Input a Monoscope pattern to VIDEO input terminal.
- Conenct a ⊕ side of DC Current Meter to TPD1 and ⊖ side of DC Current Meter to TPD2.
- 3. Adjust R3317 (Sub Brightness) or R670 (Sub Contrast) so that the value of DC Current Meter is 400μ A.

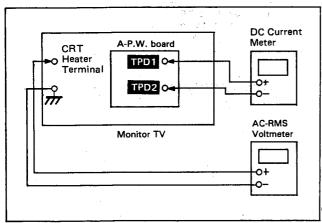


Fig. 2

- 4. Connect a AC-RMS voltmeter to CRT Heater terminal.
- 5. Confirm that the value is $6.15 \pm 0.24 \text{Vrms}$.
- 6. Input a Black Level pattern to VIDEO input terminal.
- 7. Set the R3317 (Sub Brightness) and R670 (Sub Contrast) to minimum, and delete the raster.
- 8. Connect a High Voltmeter to anode of CRT.

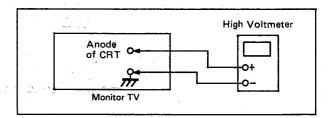


Fig. 3

9. Confirm that the value is 24.0±1kV.

COMB FILTER ADJUSTMENT (A-P.W. Board)

1. EQUIPMENT TO USED

Oscilloscope

Video Generator

2. INITIALIZE CONDITION

Input Selector Switches LINE A

TV System Selector Switch NTSC 3.58

Felter Selector Switch OFF

3. ADJUSTMENT PROCEDURE

- 1. Input a Colour Bar signal to VIDEO input terminal.
- 2. Connect an Oscilloscope to TPA8.

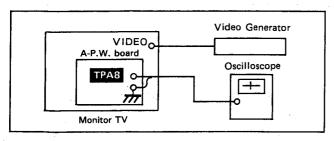


Fig. 4

- 3. Adjust R604 (Comb Level) and L601 to set 3.58MHz sub carrier at the minimum amplitude.
- 4. Confirm that 3.58 MHz sub carrier portion of the magenta is less than 50mVp-p as shown in Fig. 5.

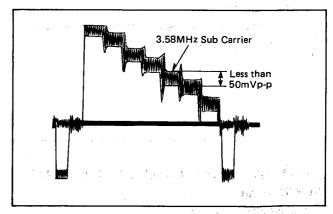


Fig. 5

5. If the amplitude is more than 50mVp-p repeat the adjustments described in step 3 through 4.

6. Disconnect an oscilloscope from TPA8 and connect an oscilloscope to emitter of Q1313.

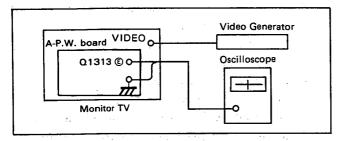


Fig. 6

- 7. Adjust R1316 (CW Level) and C1308 to set 3.58 MHz sub carrier at the minimum amplitude.
- 8. Confirm that 3.58 MHz sub carrier portion of the magenta is less than 100mVp-p as shown in Fig. 7.

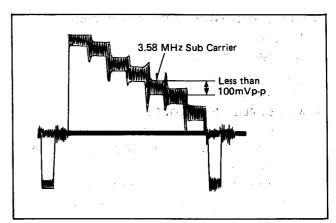


Fig. 7

If the amplitude is more than 100mVp-p repeat the adjustments described in step 7 through 8.

CONTRAST ADJUSTMENT (A/D/L-P.W. board)

1. EQUIPMENT TO USED

Oscilloscope Video Generator RGB Signal Generator

2. INITIALIZE CONDITION

Contrast Control	ix.
RGB Contrast ControlMa	ìΧ.
Brightness Control	ter

3. ADJUSTMENT PROCEDURE

- 1. Set the Input Selector Switches to LINE A.
- 2. Input a Cross Hatch pattern signal to VIDEO input terminal.
- 3. Connect an Oscilloscope to emitter of Q1313.

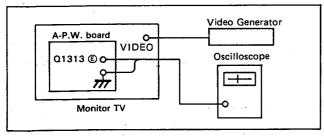


Fig. 8

4. Confirm that the A is 0V at emitter of Q1313.

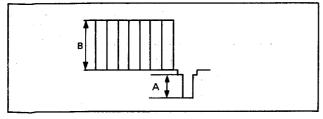


Fig. 9

Disconnect an Oscilloscope from emitter of Q1313 and connect an Oscilloscope to TPKG and TPL2.

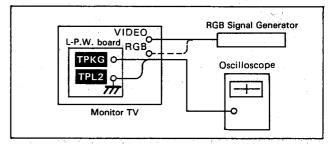


Fig. 10

6. Adjust R670 (Sub Contrast) so that the C is 55Vp-p at TPKG as shown in Fig. 11.

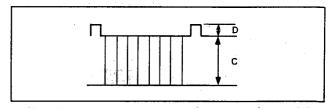


Fig. 11

- 7. Set the Input Selector switches to RGB.
- 8. Input a Cross Hatch pattern signal (fH = 15.75 kHz) to RGB inputs terminal.
- Adjust R3393 (RGB Sub Contrast) so that the C is 55 Vp-p at TPKG as shown in Fig. 11.

Note: Be sure to D is $30 \pm 10 \text{Vp-p}$.

If the D is not 30 ± 10 Vp-p, adjust R3317 (Sub Brightness).

 Set the picture to first lightup colour (glimmer) by R3317 (Sub Brightness).

COLOUR SYNCHRONIZING ADJUSTMENT (A-P.W. board)

1. EQUIPMENT TO USED

Oscilloscope Short Jumper Video Generator

2. ADJUSTMENT PROCEDURE

- 1. Set the Input Selector switches to LINE A.
- Input a PAL Colour Bar pattern signal to LINE A VIDEO input terminal.
- 3. Set the TV System Selector switch to PAL.
- 4. Connect a short jumper between IC603 (17) and
- 5. Connect an Oscilloscope to TPA19.

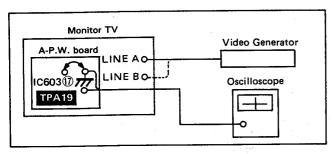


Fig. 12

- Adjust C637 (APC Trimmer) so that the waveform is stabilized, or in a slowly moving state.
- 7. Disconnect a short jumper, and confirm that the waveform is stable.
- Input a NTSC Colour Bar pattern signal to LINE A VIDEO input terminal.
- 9. Set the TV System Selector switch to NTSC 3.58.
- 10. Connect a short jumper between IC603 (1) and earth.
- 11. Adjust C634 (APC Trimmer) so that the waveform is stabilized, or in a slowly moving state.
- 12. Disconnect the short jumper, and confirm that the waveform is stable.
- 13. Set the TV System Selector switch to AUTO.
- Input a PAL Colour Bar pattern signal to LINE A and NTSC Colour Bar pattern signal to LINE B terminal.
- 15. Confirm that the colour is put on without delay when the signal is switched over from LINE A to LINE B.

PAL DELAY LINE ADJUSTMENT (A-P.W. board)

1. EQUIPMENT TO USED

Oscilloscope Video Generator

2. ADJUSTMENT PROCEDURE

- 1. Set the Input Selector switches to LINE A.
- 2. Input a PAL Colour Bar pattern signal to VIDEO input terminal.
- 3. Set the TV System Selector switch to PAL.
- 4. Connect an Oscilloscope to TPA19

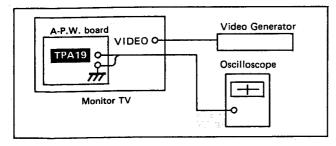


Fig. 13

 Adjust L616 (Delay Matching Trans.) and R663 (Delay Line Adj.) to achieve waveform shown in Fig. 14.

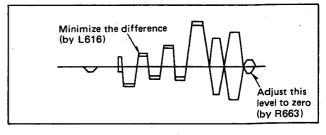


Fig. 14

BELL FILTER ADJUSTMENT (A-P.W. board)

1. EQUIPMENT TO USED

Oscilloscope

 $10k\Omega$ Resistor

Video Generator

2. ADJUSTMENT PROCEDURE

- 1. Set the Input Selector switches to LINE A.
- 2. Set the TV System Selector switch to SECAM.
- 3. Input a SECAM Colour Bar pattern signal to VIDEO input terminal.
- 4. Connect an Oscilloscope to TPA15 via $10k\Omega$ resistor.

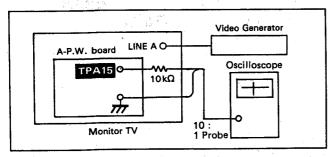


Fig. 15

Make even the amplitude of B and R of chrominance of colour bar by L608 (Bell Filter) as shown in Fig. 16.

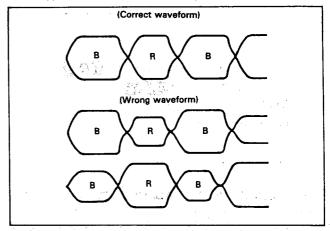


Fig. 16

SECAM IDENT ADJUSTMENT (A-P.W. board)

1. EQUIPMENT TO USED

Oscilloscope
Video Generator
10kΩ Resistor

2. ADJUSTMENT PROCEDURE

- 1. Set the Input Selector switches to LINE A.
- 2. Input a SECAM Colour Bar pattern signal to VIDEO input terminal.
- 3. Set the TV System Selector switch to SECAM.

4. Connect an Oscilloscope IC603 (1) via 10 kΩ resistor.

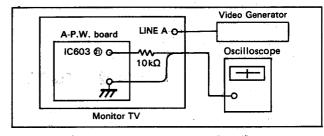


Fig. 17

Adjust L615 (SECAM Ident) so that the voltage is maximum.

SECAM DISCRIMINATION ADJUSTMENT (A-P.W. board)

1. EQUIPMENT TO USED

Oscilloscope.
Video Generator

2. ADJUSTMENT PROCEDURE

- 1. Set the Input Selector switches to LINE A.
- 2. Set the TV System Selector switch to SECAM.
- Input a SECAM Colour Bar pattern signal to VIDEO input terminal.

4. Connect an Oscilloscope to TPA19

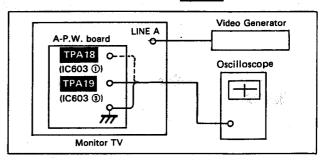


Fig. 18

Adjust L617 (SECAM Discrimination) so that the levels
 A, B and C are same level as shown in Fig. 19.

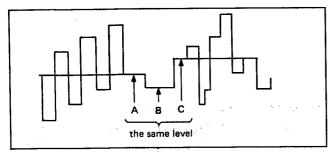


Fig. 19

- 6. Disconnect an Oscilloscope from TPA19 and connect an Oscilloscope to TPA18.
- 7. Adjust L618 so that the levels D, E and F are same level as shown in Fig. 20.

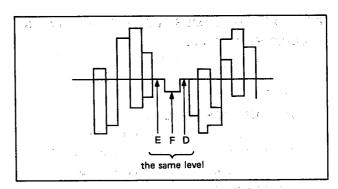


Fig. 20

- 8. Disconnect an Oscilloscope from TPA18 and connect an Oscilloscope to TPA19.
- 9. Confirm that the levels A and C are same level as shown in Fig. 19.

PULSE CROSS CIRCUIT ADJUSTMENT (A/B/E-P.W. board)

1. EQUIPMENT TO USED

Oscilloscope

Video Generator (NTSC and PAL/SECAM)

2. ADJUSTMENT PROCEDURE

- 1. Set the Input Selector switches to LINE A.
- 2. Set the TV System Selector switch to NTSC.
- 3. Set the H/V Delay Switch ⊞ to ON.
- 4. Input a Red Signal to LINE A terminal.
- 5. Connect an Oscilloscope to TPE1 and TPA15.

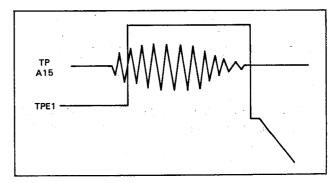


Fig. 22

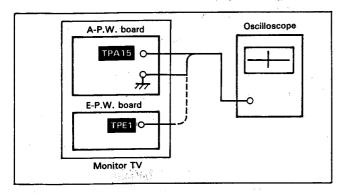


Fig. 21

 Adjust R5444 (Burst sampling for pulse cross) so that the false burst for TPA15 enter within clamp pulse of TPE1 as shown in Fig. 22.

- 7. Set the H/V Delay Switch H to OFF.
- .. 8. Input a SMPTE signal to LINE A terminal.
- 9. Set the Blue Signal Only Switch to ON.
- Adjust Chroma Control so that the Contrast for ① and
 and for ③ and ④ is the same as shown in Fig. 25.

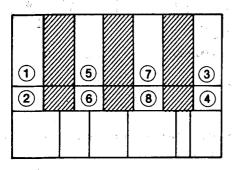


Fig. 25

- 11. Adjust Phase Control so that the Contrast for ⑤ and ⑥. and for ⑦ and ⑧ is the same as shown in Fig. 25.
- Note: After adjusted Chroma and Phase controls on step 12 and 13, don't turn Chroma and Phase controls step 17 completed.
- 12. Set the H/V Delay Switch I to ON.
- Note: When ①, ② and ③, ④ disappear by overscan, press the Under Scan Switch □.

 Move the picture up and down by R5455 (Centering for pulse cross).
- 13. Adjust L5308 (Tint for pulse cross) so that the Contrast for ① and ② is the same as shown in Fig. 26.

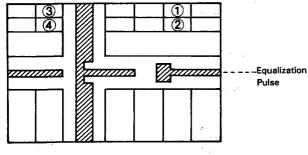


Fig. 26

- 14. Adjust R5377 (Colour for pulse cross) so that the Contrast for ③ and ④ is the same as shown in Fig. 26.
- 15. Switching the H/V Delay Switch to ON/OFF, confirm the adjustment for step 12 and 13 is right.
- 16. Set the H/V Delay switch ∰ to OFF.
- 17. Set the Input Selector switches to LINE B.
- 18. Set the TV System Selector switch to PAL.
- 19. Set the Blue Signal Only Switch to OFF:
- 20. Input a PAL Colour Bar Signal to LINE B terminal.
- 21. Memory the this level for ⓐ and ⓑ (about colourless) as shown in Fig. 27.

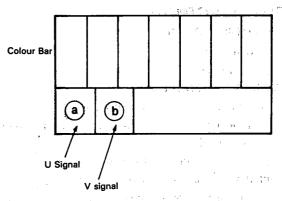


Fig. 27

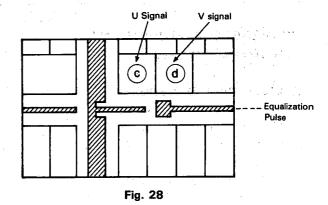
- 22. Set the H/V Delay Switch H to ON.
- 23. Turn L5307 (U/V signal for pulse cross) so that the level for

 and

 is the same to level for

 and

 (about colourless) as shown in Fig. 27 and 28.



- 24. Input a PAL signal (any pattern) to LINE B terminal.
- 25. Set the H/V Delay Switch to ON.
- 26. Adjust R5455 (Centring for pulse cross) so that the equalization pulse is centre to vertical direction.
- 27. Input a PAL, SECAM, NTSC colour bars.
- Confirm the normal and H/V Delay pictures monitor rightly.

PURITY ADJUSTMENT

1. EQUIPMENT TO USED

Video Generator External Degaussing Coil

2. ADJUSTMENT PROCEDURE

- 1. Operate the monitor over 30 minutes.
- 2. Fully degauss the picture tube by using an external degaussing coil.
- 3. Set the Input Selector Switches to LINE A.
- 4. Input a video signal to VIDEO input terminal.
- 5. Adjust roughly convergence by using the static and convergence magnets and deflection yoke.
- 6. Input a black and white signal to VIDEO input terminal.
- 7. Loosen clamp screw of the deflection yoke.
- 8. Slide the deflection yoke toward the picture tube.
- 9. Adjust the purity magnets so that red circle is obtained at the centre of the picture.

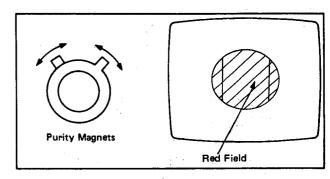


Fig. 29

- Slide the deflection yoke toward you so that good purity is obtained.
- 11. Confirm the purity with a green and a blue screen.
- 12. Emit the Red, Green and Blue at the same time.
- 13. Confirm the white quality.
- 14. Tighten clamp screw when complete.

CONVERGENCE ADJUSTMENT

1. EQUIPMENT TO USED

Video Generator.

2. ADJUSTMENT PROCEDURE

- 1. Operate the monitor 30 minutes.
- 2. Set the Input Selector Switches to LINE.
- 3. Input a Cross Hatch patten signal to VIDEO input terminal.
- 4. Match the R and B at picture center with four pole magnet.
 - (Rotate the two ring magnets to move the red and blue dots Circularly in the opposite derection).
- At the picture centre, match R and B to G with the six-pole magnet.

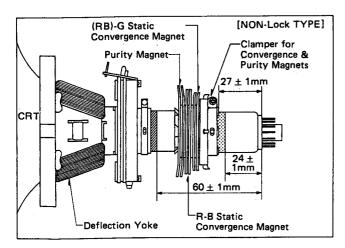
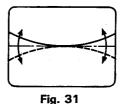
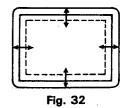


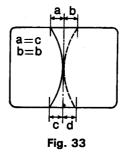
Fig. 30

- 6. Tilt the DY up and down, match the R and B for H line of centre. (Fig. 31)
- Tilt the DY left and right, match the R and B for H line of up and down side and V line of left and right side. (Fig. 32)





 Adjust R, B skew control (Black control on DY) so that the unmatch for left and right of R, B of centre V line is symmetry. (Fig. 33)



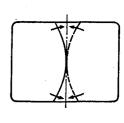


Fig. 34

- Match the R, B of centre V line by R, B Bow control (white control on DY). (Fig. 34)
- 10. When unmatching, repeat step 7 and 8.
- 11. When the periphery convergence is bad, fix the good point for convergence by inserting parmalloy.

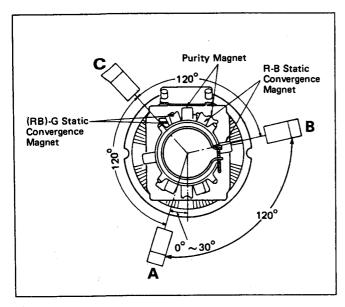


Fig. 35

Notes:

- 1. Wedge A shown in Fig.35 should be fixed within a range of $0^{\circ} \sim 30^{\circ}$ to the left of the vertical line as shown.
- 2. After inserting wedge A, insert wedges B and C. The wedges should be set 120° apart from each other.
- 3. Be certain that the four wedges are firmly fixed and the Deflection Yoke is tightly clamped in place. Otherwise the Deflection Yoke may shift it position and cause a loss of convergence and purity.

CUT OFF ADJUSTMENT (L-P.W. board)

1. EQUIPMENT TO USED

Oscilloscope

Video Generator

2. INITIALIZE CONDITION (D-P.C. board)

R3349 (R Drive)	entre
R3351 (R Cut OFF)	entre
R3366 (B Drive)	
R3339 (B Cut OFF)	entre
Colour Temp. Selector93	00° K

3. ADJUSTMENT PROCEDURE

- 1. Set the input selector switches to LINE A.
- 2. Set the TV System selector switch to NTSC 3.58.
- 3. Input a Cross Hatch pattern signal to VIDEO input terminal.
- 4. Connect an Oscilloscope to TPKG, and earth.

- 5. Read the voltage (Black standard level to earth) on oscilloscope.
- 6. Adjust the Screen control on FBT so that the Black standard signal level is 95±5V.

Note: Black standard signal is output from the IC for auto white balance and appears after the vertical blanking pulse. Do not adjust at black level in video signal.

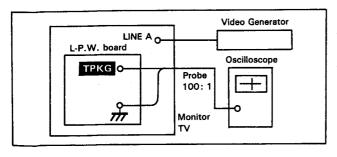


Fig. 36

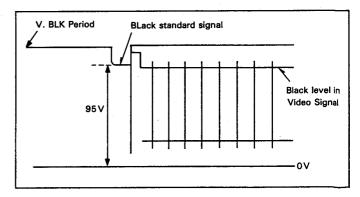


Fig. 37

WHITE BALANCE ADJUSTMENT (D-P.W. board)

1. EQUIPMENT TO USED

Video Generator

TV-Colour Analyzer (MINOLTA)

2. INITIALIZE CONDITION

	Centre
Phase Control	Centre
Contrast Control	
Aperture Control	Centre
H. Cent. Control	Centre
Brightness Control	Centre
R3354 (R Drive)	
R3381 (R Low Light)	for 9300° K Centre
R3344 (B Drive)	101 9300 KCentre
R3347 (B Low Light)	
R3349 (R Drive)	
R3351 (R Low Light)	for 6500° K Centre
R3339 (B Drive)	lor 0500 kcentre
R3366 (B Low Light)	
Colour Temp Selector	9300° K

3. ADJUSTMENT PROCEDURE

- 1. Operate the monitor over 30 minutes.
- 2. Apply a window pattern signal.

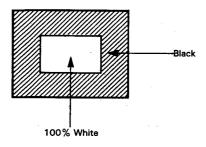


Fig. 38

- Secure the light receiving part of a TV-colour analyzer (MINOLTA) at the screen centre.
- 4. Adjust the brightness and sub brightness controls to the low light screen.
- 5. Adjust R3381 (R Low Light), R3347 (B Low Light) for low light of 9300 K.
- 6. Adjust the brightness and sub brightness controls to the high light screen.
- 7. Adjust R3354 (R Drive), R3344 (B Drive) for high light of 9300K.
- 8. Since the adjustment of steps 4 through 7 have mutual influence, be sure to repeat the followup adjustment.
- 9. Set the colour temp. switch to 6500 K.
- 10. Adjust the brightness and sub brightness controls to the low light screen.
- 11. Adjust R3351 (R Low Light), R3366 (B Low Light) for low light of 6500 K.
- 12. Adjust the brightness and sub brightness controls to the high light screen.
- 13. Adjust R3349 (R Drive), R3339 (B Drive) for high light of 6500 K.
- 14. Repeat steps 10 through 13, and finish at low light adjustment.
- 15. Finish at adjustment of 6500K surely.

SUB BRIGHTNESS ABL ADJUSTMENT (A/D-P.W. Board)

1. EQUIPMENT TO USED

Video Generator DC Current Meter

2. INITIALIZE CONDITION

Contrast Control	 	.Max.
RGB Contrast Control	 	.Max.
Brightness Control	 	Centre

3. ADJUSTMENT PROCEDURE

- 1. Operate the monitor over 30 minutes.
- 2. Set the Input Selector Switches to LINE A.

- 3. Input SMPTE or cross hatch pattern signal to VIDEO input terminal
- Set the black level of the picture to first lightup colour (glimmer) by R3317 (Sub Brightness).

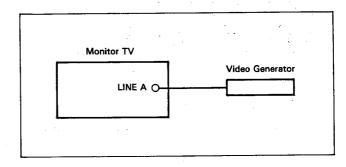


Fig. 39

FOCUS ADJUSTMENT

Adjust the focus control (on the FBT) to obtain the sharpest and clearest picture.

DEFLECTION ADJUSTMENT (A/E-P.W. board)

- 1. Set the Input Selector Switches to LINE B.
- 2. Set the TV System Selector switch to PAL.
- 3. Set the Underscan Switch to OFF.
- 4. Adjust R5764 (V. PINC.) so that the vertical line is straight.
- 5. Input a PAL signal (any pattern) to LINE B input
- 6. Adjust R468 (V. Center) so that the vertical picture position is centre.
- 7. Adjust horizontal width by R563 (H. Size) so that the $A = B = 2.5 \pm 0.5$ as shown in Fig. 40.

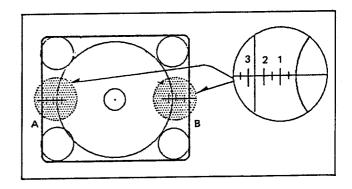


Fig. 40

T-H1450Y/YG

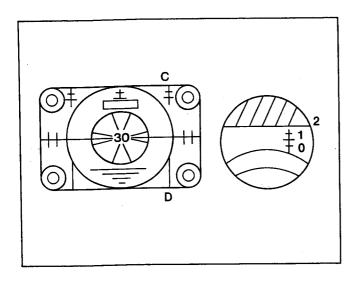
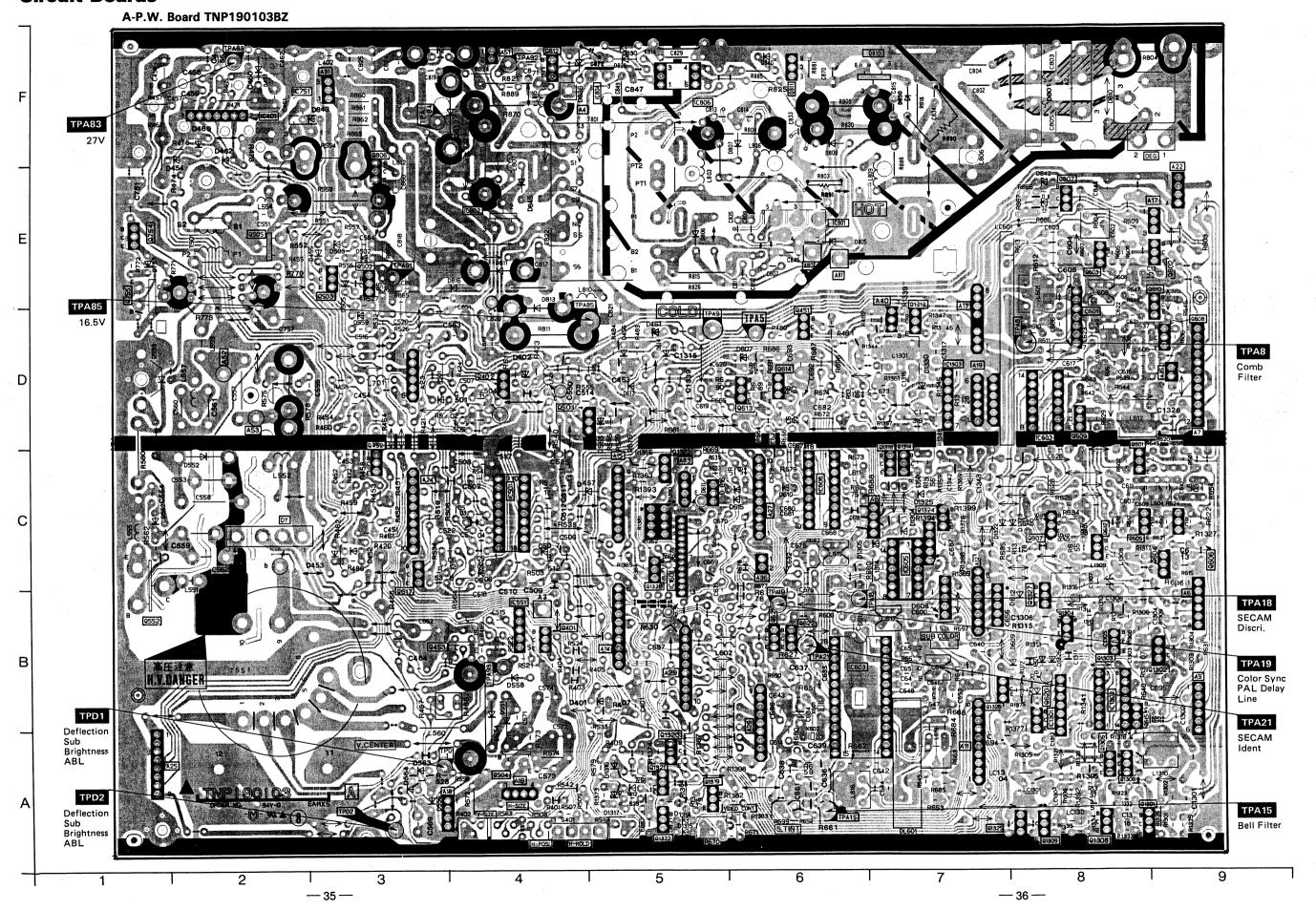


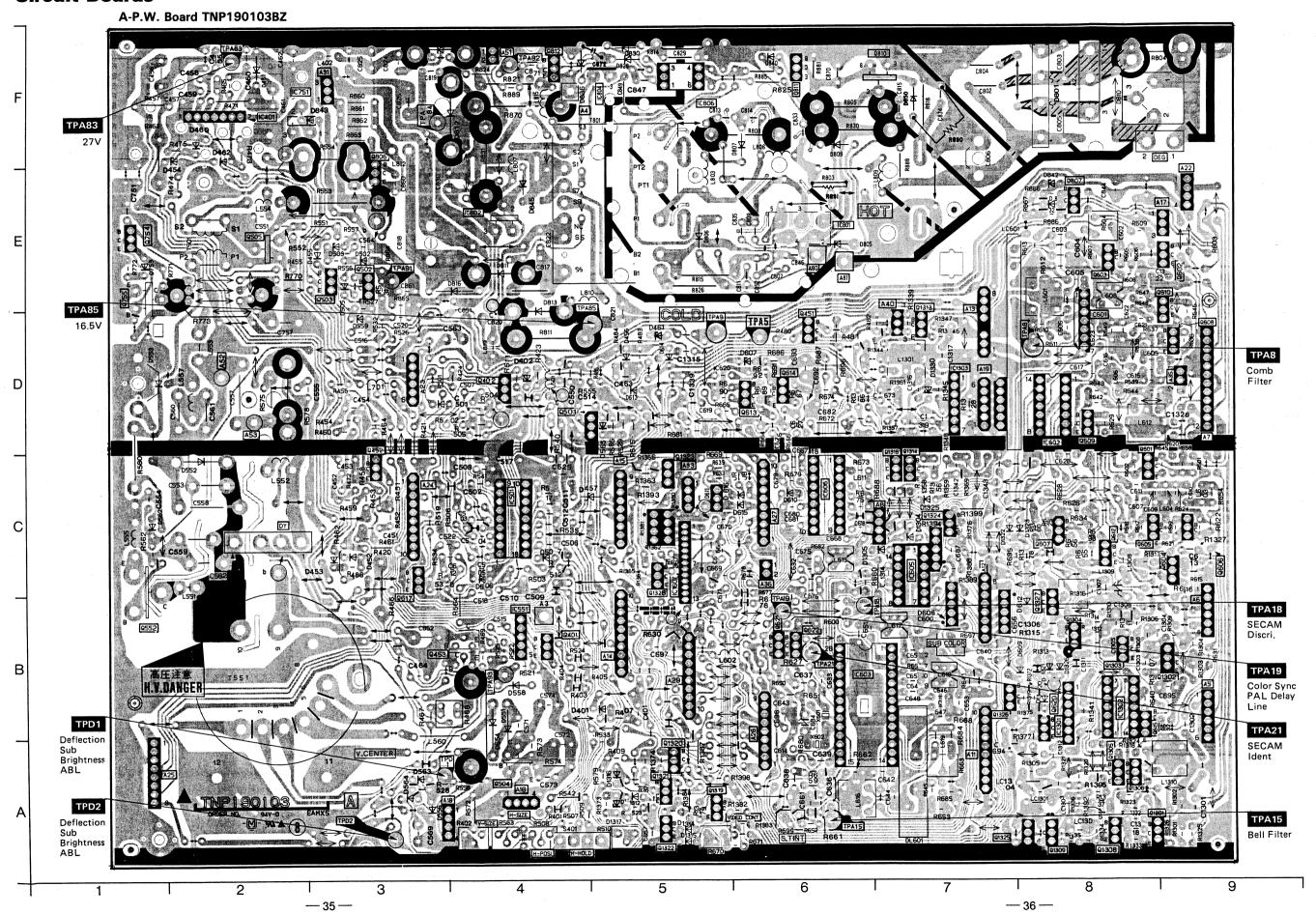
Fig. 41

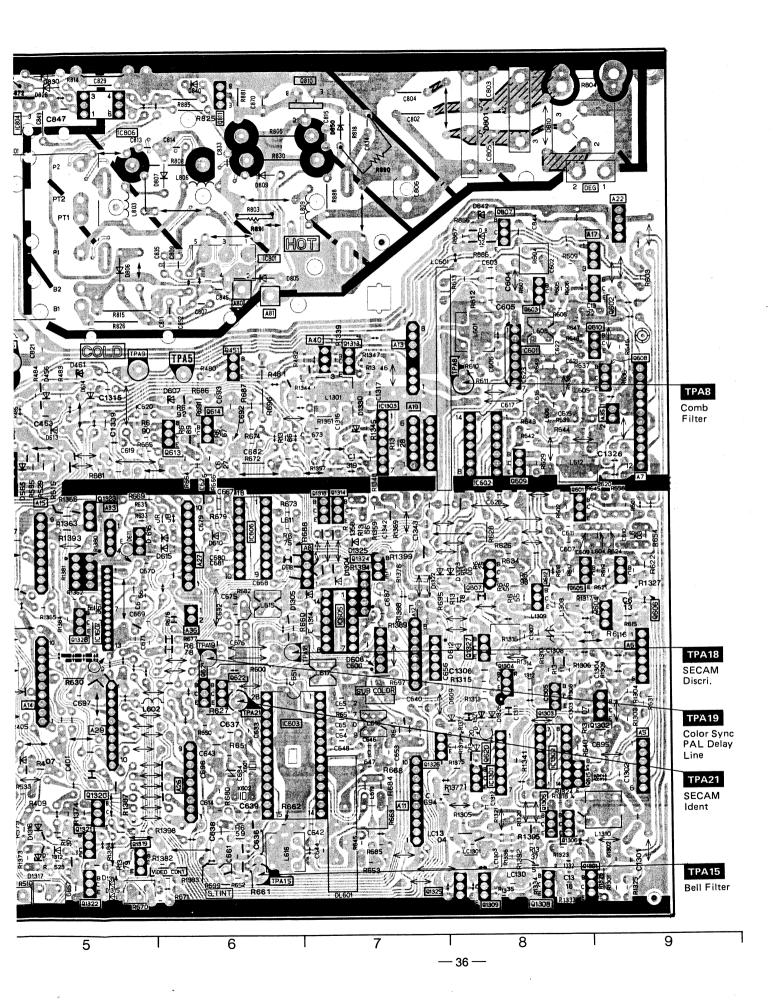
- 8. Adjust vertical height by R402 (V. Size) so that the $C = D = 2.0 \pm 0.5$ as shown in Fig. 41.
- 9. Set the Underscan Switch to ON.
- Adjust Brightness Control so that the back raster appear, and set the back raster in centre position by R508 (Sub H. Centre).
- 11. Set the Underscan Switch to OFF.
- 12. Confirm that the picture is impartical to right and left too far and the all picture is overscan.
- 13. Set the TV System Selector to NTSC.
- 14. Input a monoscope pattern signal to LINE A input terminal.
- 15. Set the Underscan Switch to ON, and then confirm that the all picture is underscan.

Circuit Boards



Circuit Boards





A-P.W. BOARD				
IC		Q806	F-3	
IC401	F-2	Q807	E-8	ľ
IC501	C-4	Q810	E-6	
IC551	B-4	Q811	E-6	
IC601	D-8	Q812	F-4	l
IC602	D-8	Q1301	A-8	
IC603	B-6	Q1302	B-9	
IC605	C-7	Q1303	B-8	
IC606	C-6	Q1304	B-8	
IC607	C-5	Q1305	A-8	
IC801	E-6	Q1306	A-8	
IC802	E-4	Q1308	A-8	
IC804	F-5	Q1309	A-8	
IC806	F-5	Q1313	D-7	l
IC751	F-2	Q1314	C-7	1
IC1301	B-8	Q1318	C-7	ł
IC1302	B-8	Q1319	A-5	1
IC1303	D-7	Q1320	A-5	ł
		Q1321	A-5	1
TRANSISTO	K	Q1322	A-5	1
Q401	B-1	Q1323	C-5	l
Q402	D-4	Q1324	C-7	l
Q451	D-6	Q1325	A-8	ŀ
Q452	C-3	Q1326	B-7	l
Q453	B-3	Q1327	B-8	
Q454	B-4	Q1328	C-5	l
Q501	D-4	VR		
Q502	E-3	R402	A-4	t
Q503	E-3	R468	B-4	
Q504	A-4	R508	A-4	
Q505	E-2	R510	A-5	
Q552	B-1	R563	A-4	
Q601	C-8	R604	E-8	
Q602	E-9	R663	A-7	
Q603	E-8	R670	A-5	
Q604	C-9	R697	B-7	
Q605	C-8	R699	A-6	
Q606	C-9	R1316	B-8	
Q607	C-8		1 5-0	1
Q608	D-9	TP		
Q609	D-8	TPA8	D-8	
Q610	D-9	TPA9	D-5	
Q612	C-8	TPA15	A-6	1
Q613	D-6	TPA16	B-6	
Q614	D-6	TPA18	C-6	
Q615	B-8	TPA19	B-6	
Q617	C-3	TPA21	B-6	
Q620	B-8	TPA83	F-2	
Q621	B-6	TPA84	F-3	
Q622	B-6	TPA85	D-5	
Q754	E-1	TPD1	B-3	
Q755	E-1	TPD2	A-3	1
Q801	F-7	11.02	1	
Q804	F-7			

ADDRESS INFORMATION

C-P.W. Board			
TRANSIST	OR	R5119	E-2
Q5100	F-4	R5123 R5127	E-2 E-1
VR		R5132	E-5
R5107 R5111	E-4 E-3	R5135	E-4
R5115	E-3		

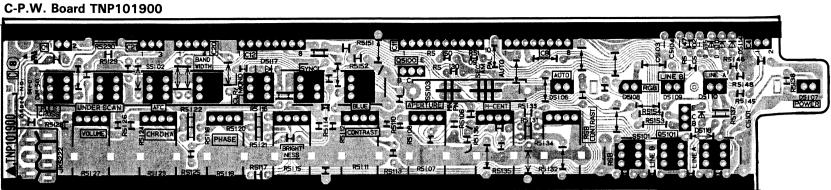
ADDRESS INFORMATION

D-P.W. Board			
IC		VR	
IC3301	D-4	R3317	D-1
IC3302	D-1	R3339	C-2
IC3304	C-5	R3344	D-2
TRANSIST	<u> </u>	R3347	D-1
IKANSISI	JK	R3349	C-2
Q3301	C-2	R3351	C-1
Q3302	D-3	R3354	D-2
Q3304	C-3	R3366	C-1
Q3305	C-1	R3381	D-1
Q3310	C-1	R3393	D-2
Q3311	D-4	TP	
Q3312	C-2	I P	
Q3313	C-2	TPD3	E-3
Q3314	D-2	TPD5	D-5
Q3315	D-2	TPD6	D-5
Q3316	D-2		

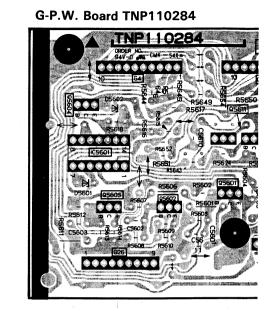
ADDRESS INFORMATION

E-P.W. Board				
TRANSISTOR		Q755	B-1	
Q506	A-2 B-2	Q756	A-1	
Q507		VR		
Q750	B-3	R764	B-2	
Q751	A-3		1	
Q752	B-2	TP		
Q753	A-2	TPE1	B-2	
Q754	B-1			

ADDRESS INFORMATION



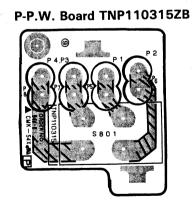
D-P.W. Board TNP101902BZ TNP101901BZ



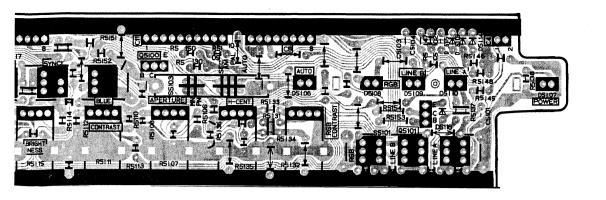
W-P.W. Board TNP101904 R4208 R4202 00000E 00000E

000000

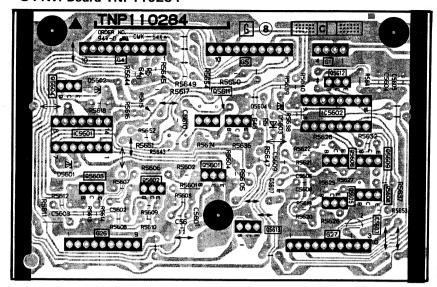
E-P.W. Board TNP110314



5 — 39 —

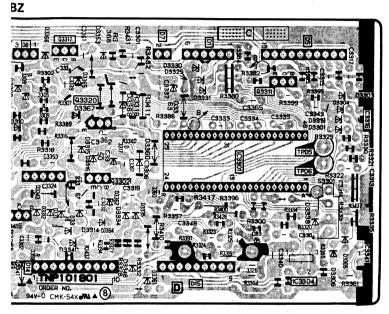


G-P.W. Board TNP110284

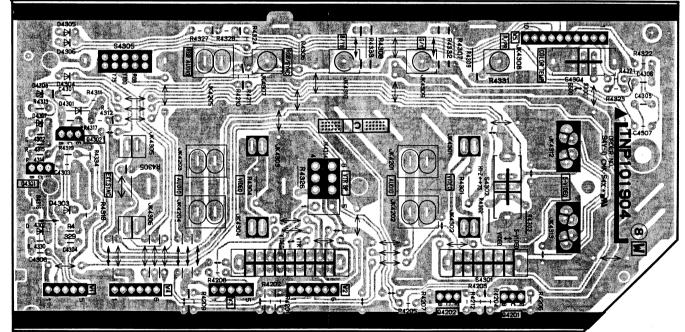


	G-P	.W. Board	
С	,	Q5604	F-7
IC5601 IC5602 IC5603	F-7 F-9 E-9	Q5605 Q5606 Q5607 Q5608	E-9 E-9 F-8 E-9
RANSIST	OR	Q5609	E-9
Q5601 Q5602 Q5603	E-8 E-8 E-7	Q5610 Q5611 Q5612	F-8 F-8 F-9

ADDRESS INFORMATION



W-P.W. Board TNP101904



W-P.W. Board

TRANSISTOR

Q4201 B-9

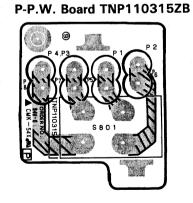
Q4202 B-8

Q4301 B-5

Q4302 C-6

ADDRESS INFORMATION



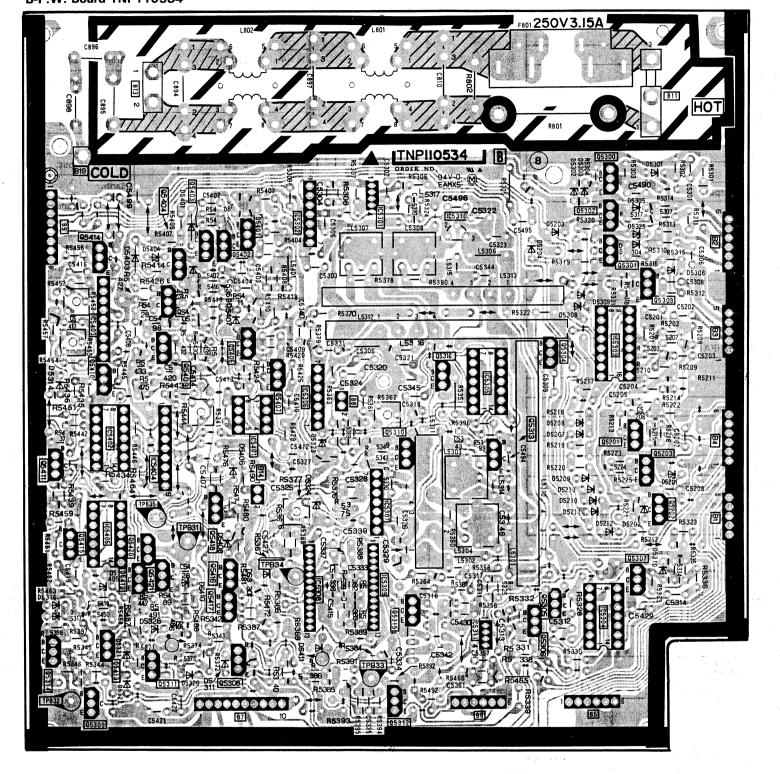


3 4 5 6 7 8 9 -39-

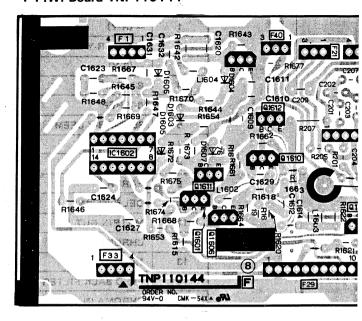
B-P.W. Board						
Transistor		Q5314	B-1			
IC5301	E-3	Q5315	B-3			
IC5301	E-3	Q5401	E-2			
IC5302	D-5	Q5402	E-2			
IC5303	B-5	Q5403	E-2			
IC5304	D-4	Q5404	E-2			
IC5305	D-3	Q5405	D-2			
IC5307	C-3	Q5406	D-2			
IC5308	B-3	Q5407	D-3			
IC5309	B-3	Q5409	D-2			
IC5309	F-4	Q5410	D-1			
IC5310	B-4	Q5411	C-1			
IC5401	C-2	Q5412	B-2			
IC5402	C-1	Q5413	B-1			
IC5402	D-1	Q5414	E-1			
IC5404	C-2	Q5415	C-1			
IC5405	C-1	Q5416	B-2			
		Q5417	B-2			
TRANSISTO	R	Q5418	C-2			
Q5201	C-5	Q5420	C-2			
Q5201	C-5	Q5421	B-2			
Q5203	C-5	VR				
Q5300	E-5	DE000	C-2			
Q5301	E-5	R5360 R5362	C-3			
Q5302	E-5	R5362 R5377	C-3			
Q5303	D-5	R5444	C-2			
Q5304	D-4	R5444	D-1			
Q5305	B-4	R5455	D-1			
Q5306	B-4	N0400	1 01			
Q5307	B-5	TP				
Q5308	B-2	TPB31	A-2			
Q5309	A-1	TPB32	B-1			
Q5310	C-3	TPB32	B-3			
Q5311	B-2	TPB34	B-3			
Q5312	A-3	TPB35	C-2			
Q5313	C-4	11 500	""			

ADDRESS INFORMATION

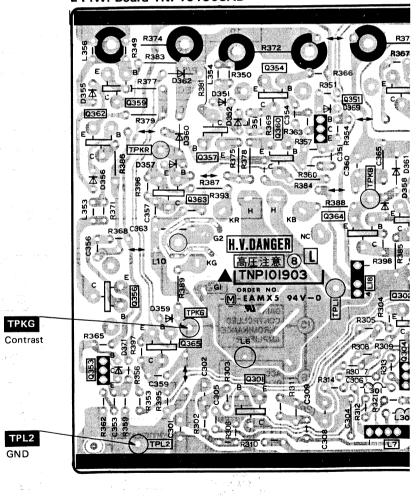
B-P.W. Board TNP110534



F-P.W. Board TNP110144

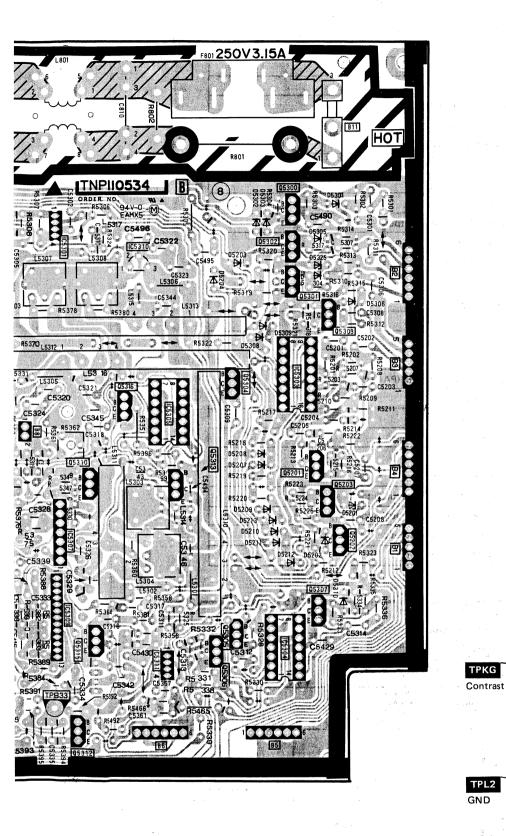


L-P.W. Board TNP101903AB



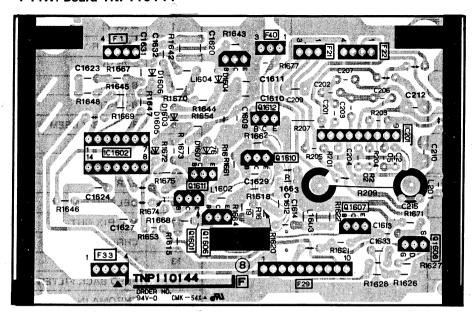
10

<u> — 42 —</u>



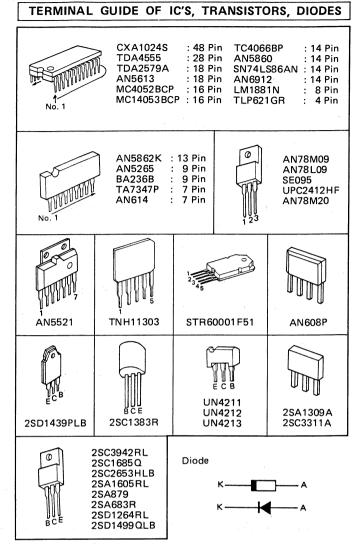
F-P.W. Board TNP110144

L-P.W. Board TNP101903AB



F-P.W. Board			
F-9			
E-7			
R			
E-8			
E-8			
E-9			
E-9			
F-8			
E-8			

ADDRESS INFORMATION



	L-P.W. Boar	a
	TRANSISTO	R
	Q301	A-8
	Q302	B-9
	Q303	A-9
	Q304	B-9
	Q305	B-9
	Q351	C-8
	Q352	C-9
	Q353	B-7
	Q354	C-8
	Q355	C-9
	Q356	B-7
100	Q357	C-7
	Q358	C-9
	Q359	C-7
	Q360	C-8
	Q361	C-9
1.0	Q362	C-7
	Q363	C-7
	Q364	C-8
	Q365	B-7
No.	TP	
	TPKR	C-7
	TPKG	B-7
3.5	TPKB	C-9
	TPL1	B-8
	TPL2	A-7

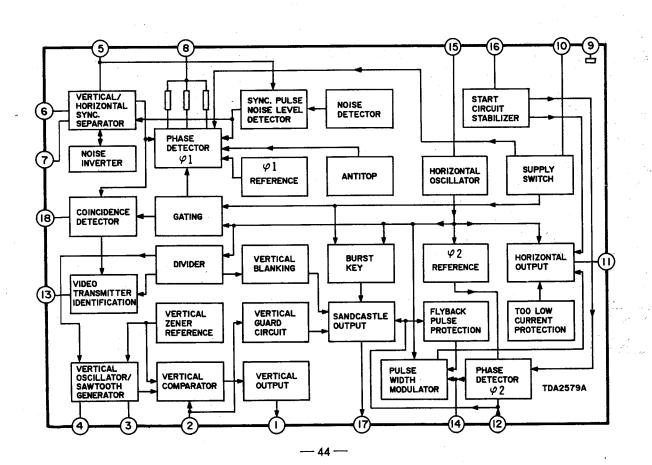
ADDRESS INFORMATION

3	4	5	12	* *	6		7 7	1 40 m	 8	1	9	

IF Function of Terminal and Equipment Circuit

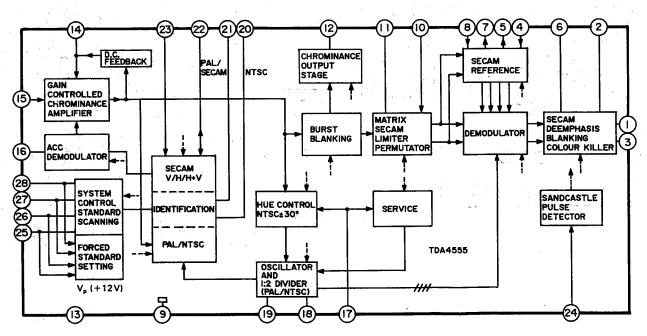
IC501 TDA2579A

PIN NO.	MARK	FUNCTION
1	V. OUT	Vertical Output.
2	V. FEED BACK	·
3		Vertical ramp generator
4		Vertical amplitude
5		Video signal input.
6		Black level
7	SYNC SEP.	
8	AFC	
9	EARTH	Earth.
10	Vcc	Supply Voltage
11	H. DRIVE	Horizontal drive output.
12	FBP	Flyback pulse input
13	50/60	
14		Horizontal portion
15		Horizontal OSC.
16		Starter
17	SANDC. OUT	Standcastle output
18	, , , ,	AFC



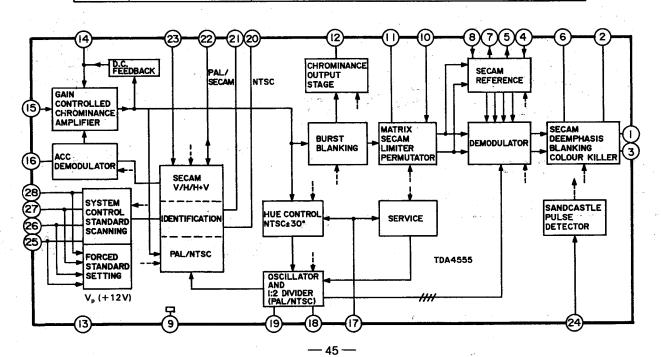
IC603 TDA4555

PIN NO.	MARK	FUNCTION
1	- (R-Y)	- (R-Y) Output
2	SECAM R-Y DEEM	R-Y SECAM deemphasis.
3	_ (B-Y)	— (B-Y) Output.
4	B-Y-REF	B-Y SECAM reference input.
5	B-Y REF	B-Y SECAM reference output.
6	SECAM B-Y DEEM	B-Y SECAM deemphasis.
7	R-Y REF	R-Y SECAM reference output.
8	R-Y REF	R-Y SECAM reference input.
9	EARTH	Earth.
10	DELAYED IN	64μs delay input.
11	MATRIX OUT	MATRIX SECAM limiter output.
12	CHROMA OUT	Chrominance output.
13	12V	Supply Voltage 12V.
14	FEED BACK FILTER	DC feedback.
15	CHROMA IN	Chrominance input.
16	AGC DEMODU.	AGC demodulator.
17	SERVICE (TINT)	Hue control.
18	CLK	PLL
19	CLK	7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator.
20	NTSC SYSTEM F.	NTSC identification.
21	P/S SYSTEM F.	PAL/SECAM identification.
22	SECAM IDENT ADJ.	SECAM identification reference.
23	SECAM SYS, SW	Earth.
24	SAND	Sandcastle pulse input.
25	SYSTEM NTSC 4.43	NTSC 4.43 MHz recognize input/output.
26	SYSTEM NTSC 3.58	NTSC 3.58 MHz recognize input/output.
27	SYSTEM SECAM	SECAM recognize input/output.
28	SYSTEM PAL	PAL recognize input/output.



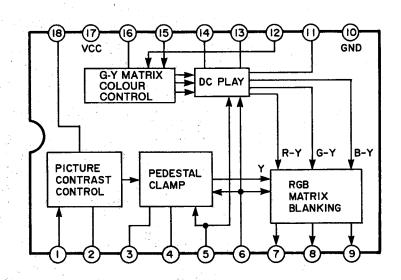
IC603 TDA4555

PIN NO. MARK		· · · · · · · · · · · · · · · · · · ·	
2 SECAM R-Y DEEM R-Y SECAM deemphasis. 3 — (B-Y) — (B-Y) Output. 4 B-Y REF B-Y SECAM reference input. 5 B-Y REF B-Y SECAM reference output. 6 SECAM B-Y DEEM B-Y SECAM deemphasis. 7 R-Y REF R-Y SECAM reference output. 8 R-Y REF R-Y SECAM reference output. 9 EARTH Earth. 10 DELAYED IN 64µs delay input. 11 MATRIX OUT MATRIX SECAM limiter output. 12 CHROMA OUT Chrominance output. 13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. PAL/SECAM identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS, SW Earth. 24 SAND Sandcastle pulse input. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM SECAM SECAM recognize input/output.		MARK	FUNCTION
3	1	- (R-Y)	— (R-Y) Output
4 B-Y REF B-Y SECAM reference input. 5 B-Y REF B-Y SECAM reference output. 6 SECAM B-Y DEEM B-Y SECAM deemphasis. 7 R-Y REF R-Y SECAM reference output. 8 R-Y REF R-Y SECAM reference input. 9 EARTH Earth. 10 DELAYED IN 64 4 Selay input. 11 MATRIX OUT MATRIX SECAM limiter output. 12 CHROMA OUT Chrominance output, 13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification reference. 23 SECAM IDENT ADJ. SECAM identification reference. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	2	SECAM R-Y DEEM	R-Y SECAM deemphasis.
5 B-Y REF B-Y SECAM reference output. 6 SECAM B-Y DEEM B-Y SECAM deemphasis. 7 R-Y REF R-Y SECAM reference output. 8 R-Y REF R-Y SECAM reference input. 9 EARTH Earth. 10 DELAYED IN 64 MATRIX SECAM limiter output. 11 MATRIX OUT MATRIX SECAM limiter output. 12 CHROMA OUT Chrominance output. 13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	3	— (B-Y)	— (B-Y) Output.
B-Y SECAM deemphasis. R-Y REF R-Y SECAM reference output. R-Y REF R-Y SECAM reference output. R-Y REF R-Y SECAM reference output. R-Y REF R-Y SECAM reference input. EARTH Earth. DELAYED IN 64μs delay input. MATRIX OUT MATRIX SECAM limiter output. CHROMA OUT Chrominance output. Supply Voltage 12V. HEED BACK FILTER DC feedback. CHROMA IN Chrominance input. AGC demodulator. SERVICE (TINT) Hue control. SERVICE (TINT) Hue control. CLK PLL CLK PLL P/S SYSTEM F. NTSC identification. P/S SYSTEM F. PAL/SECAM identification reference. SECAM SYS. SW Earth. SAND Sandcastle pulse input. SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. SYSTEM SECAM SECAM SECAM recognize input/output.	4	B-Y REF	B-Y SECAM reference input.
7 R-Y REF R-Y SECAM reference output. 8 R-Y REF R-Y SECAM reference input. 9 EARTH Earth. 10 DELAYED IN 64μs delay input. 11 MATRIX OUT MATRIX SECAM limiter output. 12 CHROMA OUT Chrominance output. 13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification reference. 23 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 <td< td=""><td>5</td><td>B-Y REF</td><td>B-Y SECAM reference output.</td></td<>	5	B-Y REF	B-Y SECAM reference output.
8 R-Y REF R-Y SECAM reference input. 9 EARTH Earth. 10 DELAYED IN 64μs delay input. 11 MATRIX OUT MATRIX SECAM limiter output. 12 CHROMA OUT Chrominance output. 13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK PLL 19 CLK NTSC identification. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	6	SECAM B-Y DEEM	B-Y SECAM deemphasis.
9 EARTH Earth. 10 DELAYED IN 64µs delay input. 11 MATRIX OUT MATRIX SECAM limiter output. 12 CHROMA OUT Chrominance output. 13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	- 7	R-Y REF	R-Y SECAM reference output.
10 DELAYED IN 64 selay input. 11 MATRIX OUT MATRIX SECAM limiter output. 12 CHROMA OUT Chrominance output. 13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	8	R-Y REF	R-Y SECAM reference input.
11 MATRIX OUT Chrominance output. 12 CHROMA OUT Chrominance output. 13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	9	EARTH	Earth.
12 CHROMA OUT Chrominance output. 13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	· 10	DELAYED IN	64μs delay input.
13 12V Supply Voltage 12V. 14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	11	MATRIX OUT	MATRIX SECAM limiter output.
14 FEED BACK FILTER DC feedback. 15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	12	CHROMA OUT	Chrominance output.
15 CHROMA IN Chrominance input. 16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output.	13	12V	Supply Voltage 12V.
16 AGC DEMODU. AGC demodulator. 17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS, SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM SECAM recognize input/output.	14	FEED BACK FILTER	DC feedback,
17 SERVICE (TINT) Hue control. 18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM SECAM recognize input/output.	15	CHROMA IN	Chrominance input.
18 CLK PLL 19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM SECAM recognize input/output.	16	AGC DEMODU.	AGC demodulator.
19 CLK 7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator. 20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM recognize input/output.	17	SERVICE (TINT)	Hue control.
20 NTSC SYSTEM F. NTSC identification. 21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM SECAM recognize input/output.	18	CLK	PLL
21 P/S SYSTEM F. PAL/SECAM identification. 22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM SECAM recognize input/output.	19	CLK	7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator.
22 SECAM IDENT ADJ. SECAM identification reference. 23 SECAM SYS. SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM recognize input/output.	20	NTSC SYSTEM F.	NTSC identification.
23 SECAM SYS, SW Earth. 24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM SECAM recognize input/output.	21	P/S SYSTEM F.	PAL/SECAM identification.
24 SAND Sandcastle pulse input. 25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM recognize input/output.	22	SECAM IDENT ADJ.	SECAM identification reference.
25 SYSTEM NTSC 4.43 NTSC 4.43 MHz recognize input/output. 26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM recognize input/output.	23	SECAM SYS, SW	Earth.
26 SYSTEM NTSC 3.58 NTSC 3.58 MHz recognize input/output. 27 SYSTEM SECAM SECAM recognize input/output.	24	SAND	Sandcastle pulse input.
27 SYSTEM SECAM SECAM recognize input/output.	25	SYSTEM NTSC 4.43	NTSC 4.43 MHz recognize input/output.
	26	SYSTEM NTSC 3.58	NTSC 3.58 MHz recognize input/output,
28 SYSTEM PAL PAL recognize input/output.	27	SYSTEM SECAM	SECAM recognize input/output.
	28	SYSTEM PAL	PAL recognize input/output.



IC606 AN5613

PIN NO.	MARK	FUNCTION					
1	YIN	Luminance (Y) signal input.					
2	PICTURE	Picture control.					
3	Y CLAMP	Y clamp condensor.					
4	BRIGHT	Brightness control,					
5	CLAMP	Pedestal clamp pulse input.					
6	BLK	Blanking pulse input.					
7	R OUT	R signal output.					
8	G OUT	G signal output.					
9	B OUT	B signal output.					
10	GND	Earth.					
11	(B-Y) C	B-Y clamp condensor.					
12	(B-Y) IN	B-Y signal input.					
13	(G-Y) CLAMP	G-Y clamp condensor.					
14	(R-Y) C	R-Y clamp condensor.					
15	(R-Y) IN	R-Y signal input.					
16	COLOR	Colour control.					
17	Vcc	Supply voltage.					
18	CONT.	Contrast control.					



IC3301 CXA1024S

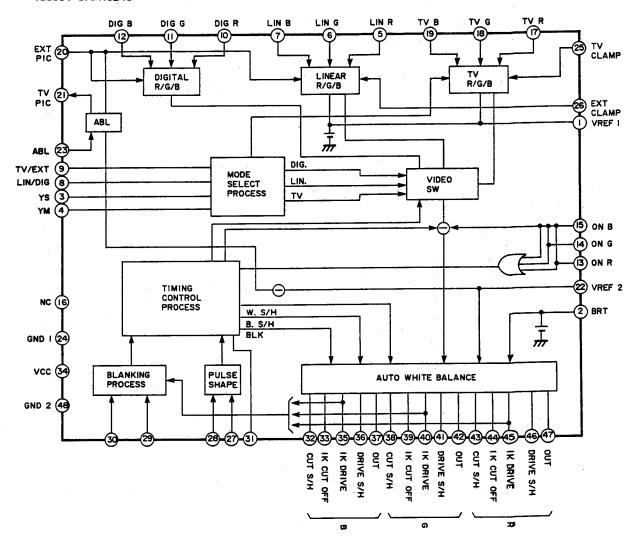
PIN NO.	MARK	FUNCTION
1	VREF1	Clamp standard voltage.
2	VREF2	Detect standard voltage.
3	Υм	YM switch control.
4	Ys	Ys switch control,
5	LIN R	
6	LIN G	R, G, B signal input at Linear input mode.
7	LIN B	
8	LIN/DIG	Linear/Digital input mode select control.
9	TV/EXT	TV/EXT (Lin./Dig.) input mode select control.
10	DIG R	
11	DIG G	R, G, B signal input at Digital input mode.
12	DIG B	
13	ON R	
14	ON G	R, G, B signal input at On screen display.
15	ON B	
16	NC	Not connected.
17	TVR	
18	TV G	R, G, B signal input at TV input mode.
19	TV B	
20	EXT PIC	Picture control for Ext. signal (Lin./Dig.).
21	NC	Not connected.
22	BRT	Brightness control.
23	ABL	Decrease the picture and brightness control gain by DC voltage for inputed ABL. (PIC ABL: Less than 4.5V, BRT ABL: Less than 2.0V)
24	GND1	Earth.
25	TV CLAMP	Clamp timing pulse input for TV input terminal.
26	EXT CLAMP	Clamp timing pulse input for Linear input terminal.
27	H. PULSE	Horizontal pulse input.
28	V. PULSE	Vertical pulse input.
29	MUTE	Terminal determined video mute time at SW on.
30	BLK	Blanking terminal for all period.
31	sw	ON/OFF output for Drive IK resistor.
32	B CUT S/H	
38	G CUT S/H	Sample hold terminal for cut off control.
43	R CUT S/H	
33	B IK OUT OFF	
39	G IK OUT OFF	IK input (Cut off control for signal output).
44	R IK CUT OFF	
34	Vcc	Supply voltage.
35	B IK DRIVE	
40	G IK DRIVE	IK input (Drive control for signal output).
45	R IK DRIVE	
36	B DRIVE S/H	
41	G DRIVE S/H	Sample hold terminal for drive control.
46	R DRIVE S/H	
37	BOUT	
42	GOUT	R, G, B signal output.
47	ROUT	
48	GND2	Earth.

Input/Output Truth Value Table

TV/EXT	Н	L			
LIN/DIG	X		Н		Ĺ
Ys	х		L	Ι	×
ΥM	x	L	Н	х	×
Control Mode	τv	ΤV	TV -6dB	LIN	DIG

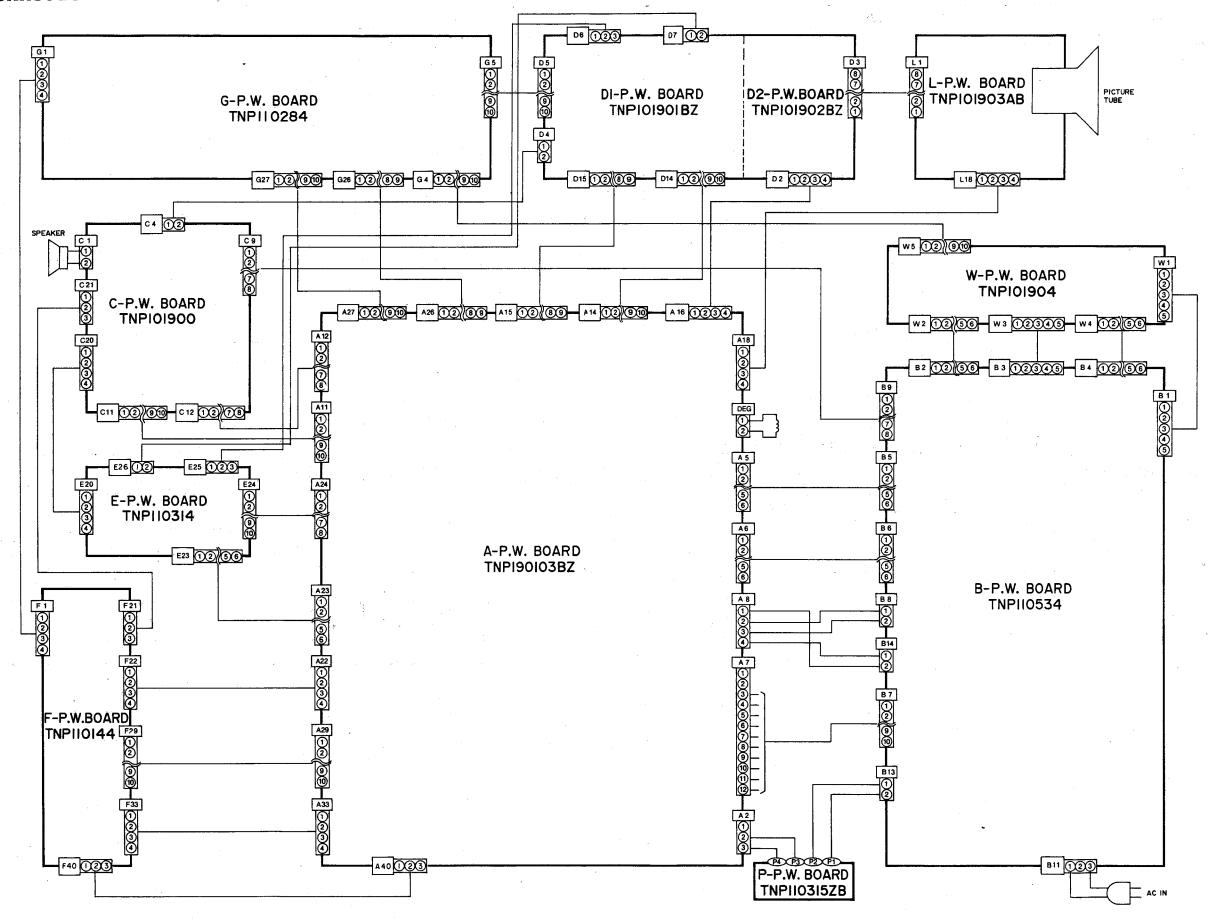
LIN : Linear DIG : Digital

IC3301 CXA1024S



Interconnections

British Carry



BT-H1450Y/YG

IC3301 CXA1024S

PIN NO.	MARK	FUNCTION
1	VREF1	Clamp standard voltage.
2	VREF2	Detect standard voltage.
3	ΥМ	YM switch control.
4	Ys	Ys switch control,
5	LINR	
6	LIN G	R, G, B signal input at Linear input mode.
7	LIN B	
8	LIN/DIG	Linear/Digital input mode select control.
9	TV/EXT	TV/EXT (Lin./Dig.) input mode select control.
10	DIG R	
11	DIG G	R, G, B signal input at Digital input mode.
12	DIG B	
13	ON R	
14	ON G	R, G, B signal input at On screen display.
15	ON B	N 50
16	NC	Not connected.
17	TVR	
	TV G	R, G, B signal input at TV input mode.
18	TV B	Tr, G, B signal input at 1 4 input incode.
19		Picture control for First signal (Lin /Dig.)
20	EXT PIC	Picture control for Ext. signal (Lin./Dig.).
21	NC	Not connected.
22	BRT	Brightness control.
23	ABL	Decrease the picture and brightness control gain by DC voltage for inputed ABL. (PIC ABL: Less than 4.5V, BRT ABL: Less than 2.0V)
24	GND1	Earth.
25	TV CLAMP	Clamp timing pulse input for TV input terminal.
26	EXT CLAMP	Clamp timing pulse input for Linear input terminal.
27	H. PULSE	Horizontal pulse input.
28	V. PULSE	Vertical pulse input.
29	MUTE	Terminal determined video mute time at SW on.
30	BLK	Blanking terminal for all period.
31	SW	ON/OFF output for Drive IK resistor.
32	B CUT S/H	
38	G CUT S/H	Sample hold terminal for cut off control.
43	R CUT S/H	
33	B IK OUT OFF	
39	G IK OUT OFF	IK input (Cut off control for signal output).
44	R IK CUT OFF	
34	Vcc	Supply voltage.
35	B IK DRIVE	
40	G IK DRIVE	IK input (Drive control for signal output).
45	R IK DRIVE	
36	B DRIVE S/H	
41	G DRIVE S/H	Sample hold terminal for drive control.
46	R DRIVE S/H	
37	BOUT	
42	GOUT	R, G, B signal output.
47	ROUT	
	11.001	

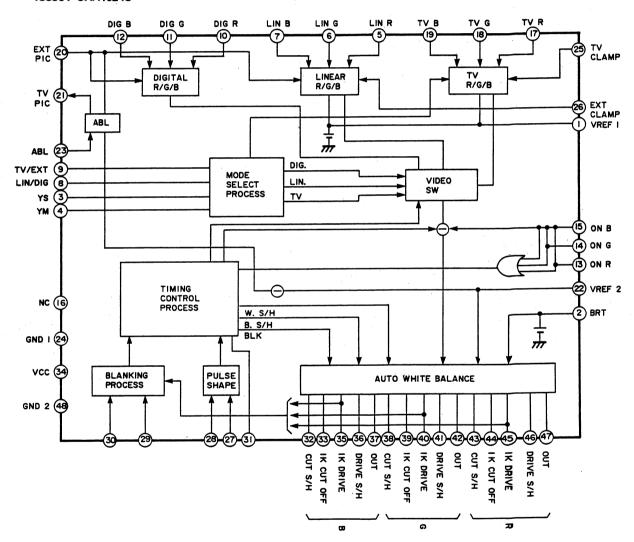
--- 47 ---

Input/Output Truth Value Table

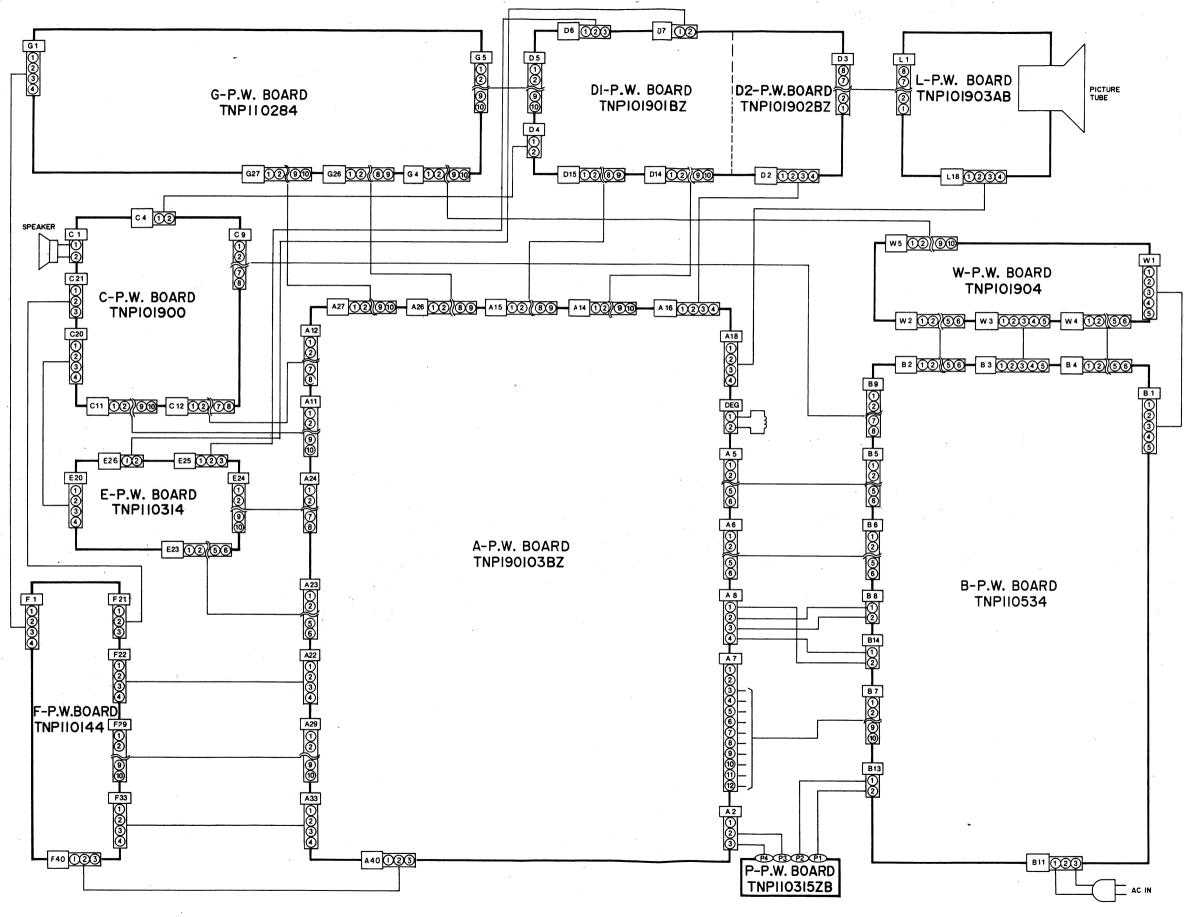
TV/EXT	Н		L					
LIN/DIG	X		Н		L.			
Ys	х		L	Η	х			
ΥM	х	L	Н	X	x			
Control Mode	τv	TV	TV -6dB	LIN	DIG			

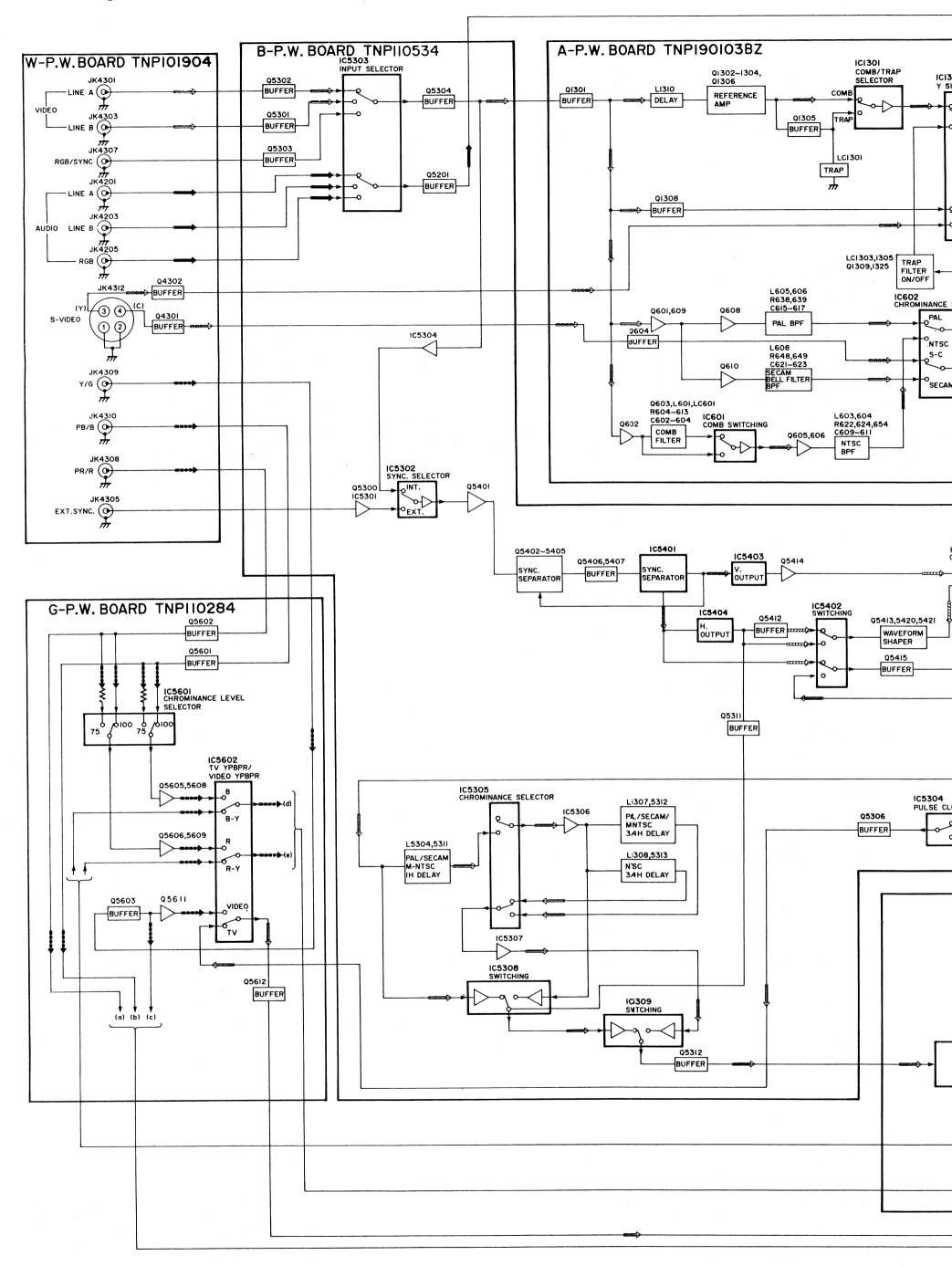
LIN : Linear DIG : Digital

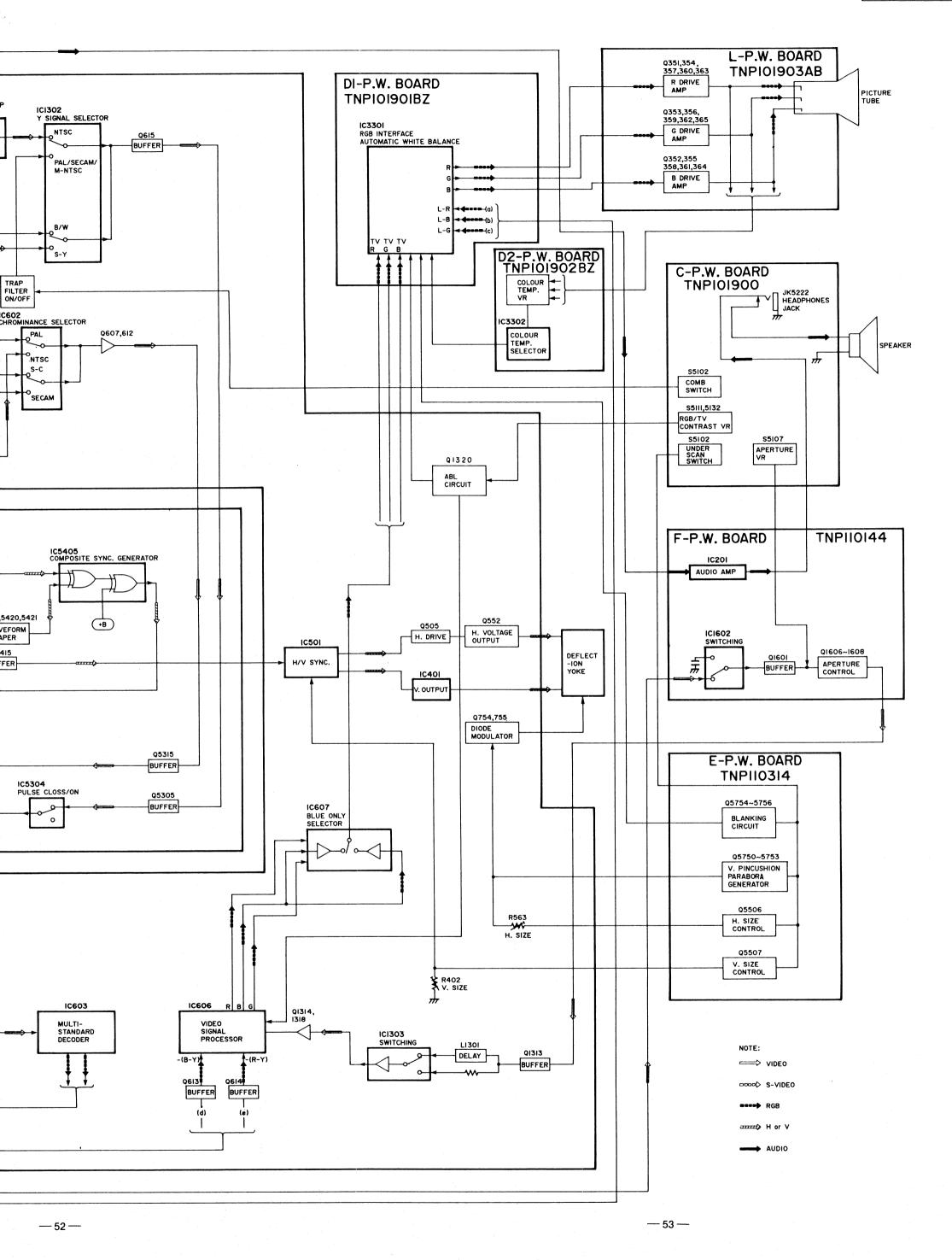
IC3301 CXA1024S



Interconnections







Schematic Diagram for Model BT-H1450Y/YG (Chassis G16M)

Important safety notice

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

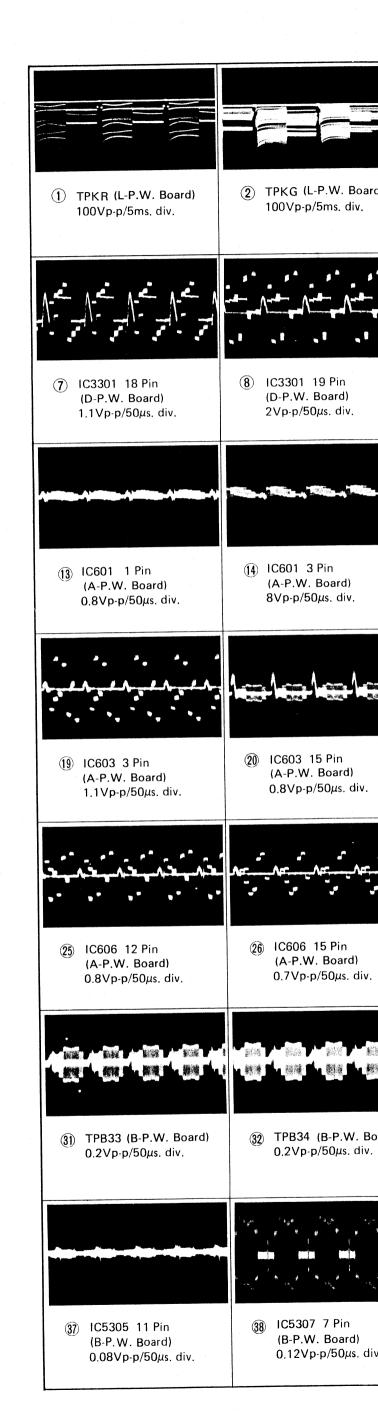
NOTE:

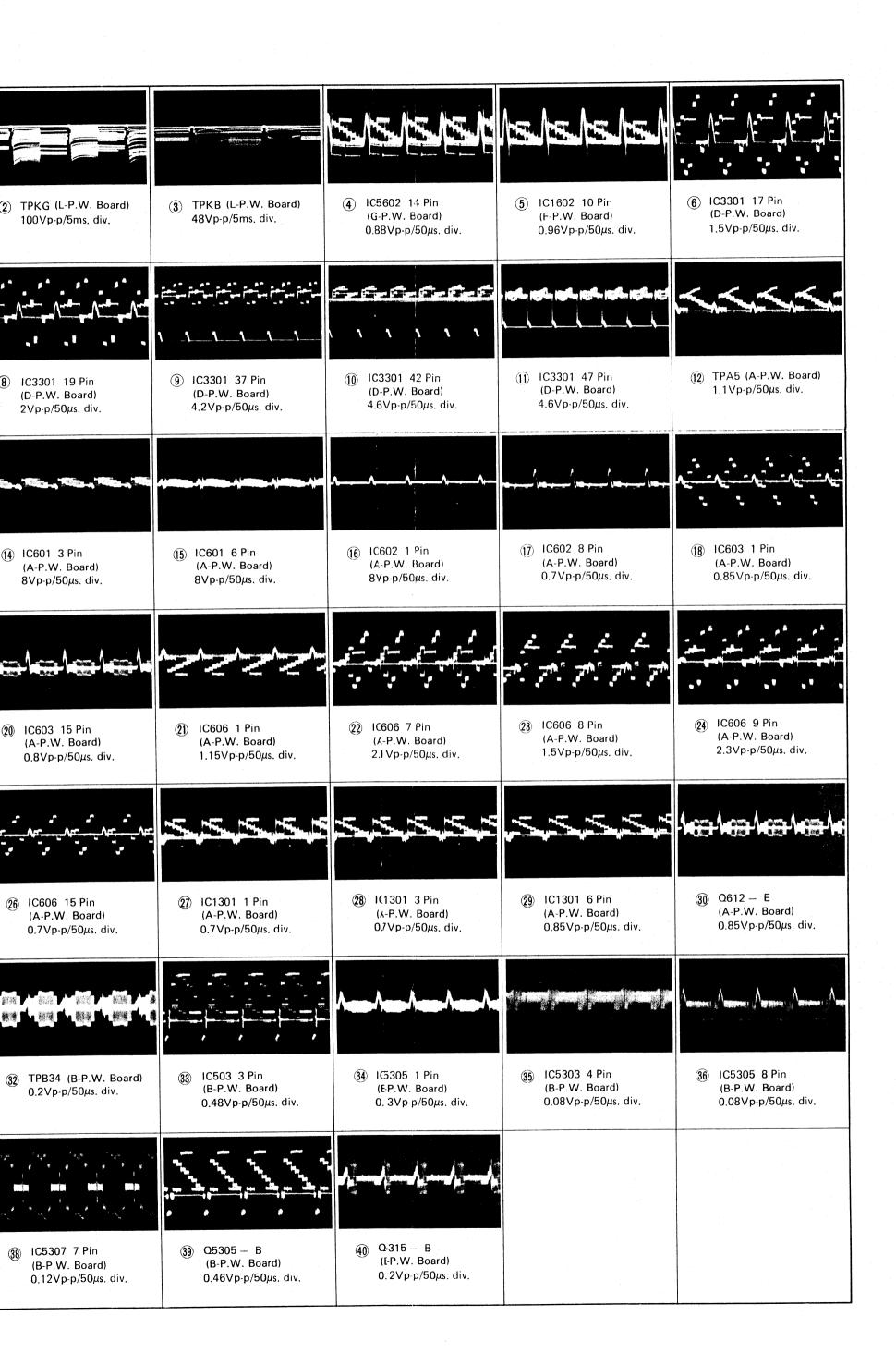
- : Power switch in OFF position. S801
- : Lever switch in B position. S3301
- : BNC/S-VIDEO switch in S-VIDEO position. S4301
- : Inpedance selector switch in 75 Ω . S4302 : BNC/8P switch in BNC position. S4303
- : Colour temp. selector switch in 9300° K. S4304 6.
- : Chroma level turning switch. S4305
- : Input selector switches in LINE A. S5101
- : Operation switches (Sync/Blue only/Underscan/P. Cross/Comb/CLR· BW/AFC). S5102
- : TV system selector switch. S5103
- 9. 10.
- RESISTOR
 - All resistors are carbon 1/4W resistor, unless specified otherwise. Unit of resistance is OHM (Ω), (K = 1,000, M = 1,000,000).
- - All capacitors are ceramic 50V capacitor, unless specified otherwise.
- Unit of capacitance is μF , unless otherwise noted.
- 13.
- Unit of inductance is μH .
- TEST POINT

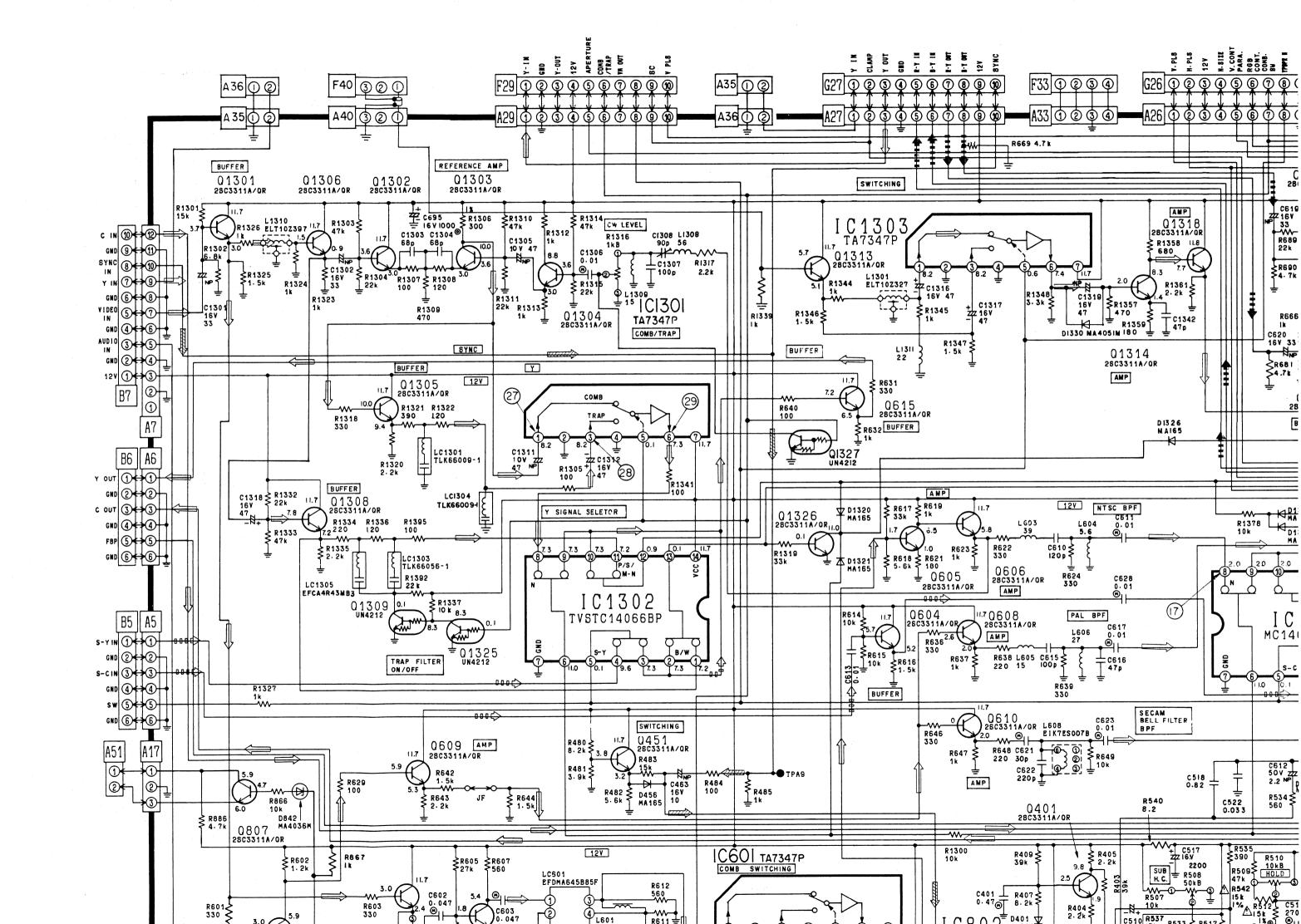
 : Test point position.
- **VOLTAGE MEASUREMENT** Voltage is measured by an electronic voltmeter receiving rainbow colour bar signal when all customer's are set to fully clockwise position.
- This schematic diagram is the latest at the time of printing and subject to change without notice.
- Positive voltage lines ⇒ Video signal □□□□♦ S-Video signal ■■■■ RGB signal V or H output signal Audio signal

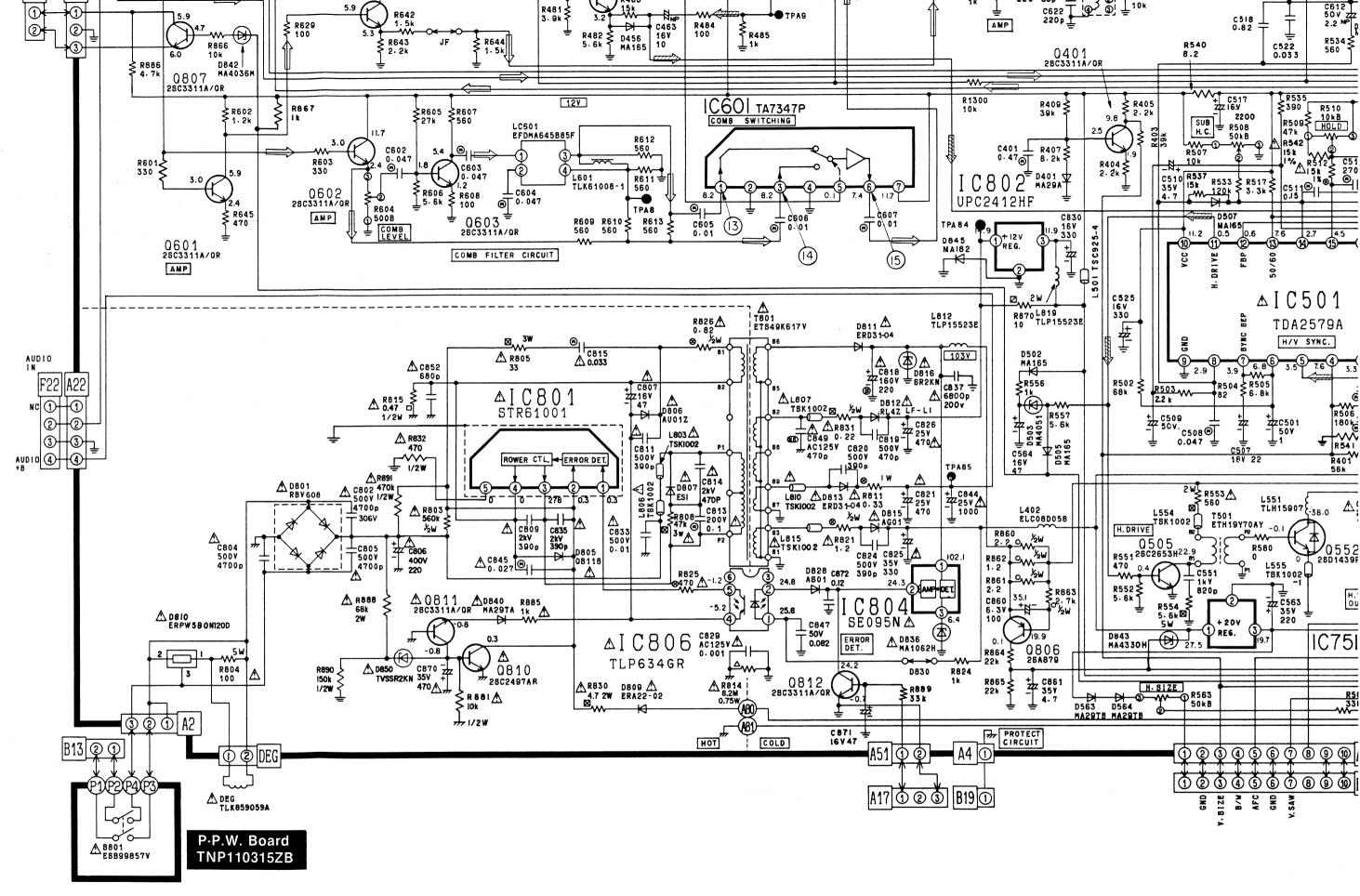
The power Circuit board contains a circuit area which uses separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions

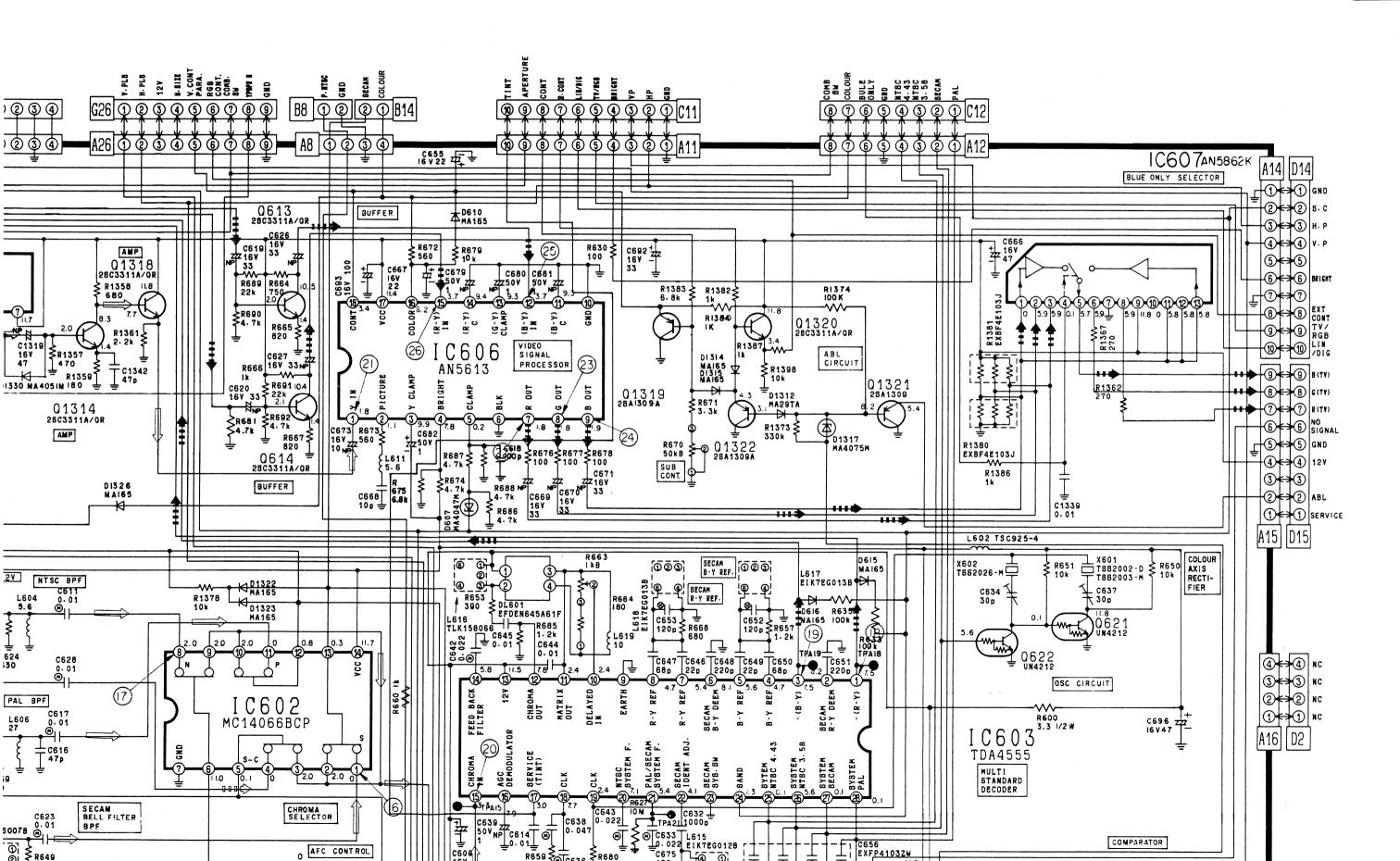
- 1. Do not touch the hot part or the hot and cold parts at the same time or you may receive a shock.
- 2. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break
- 3. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may
- Connect the earth of instruments to the earth connection of the circuit being measured.
- 4. Make sure to disconnect the power plug before removing the chassis.

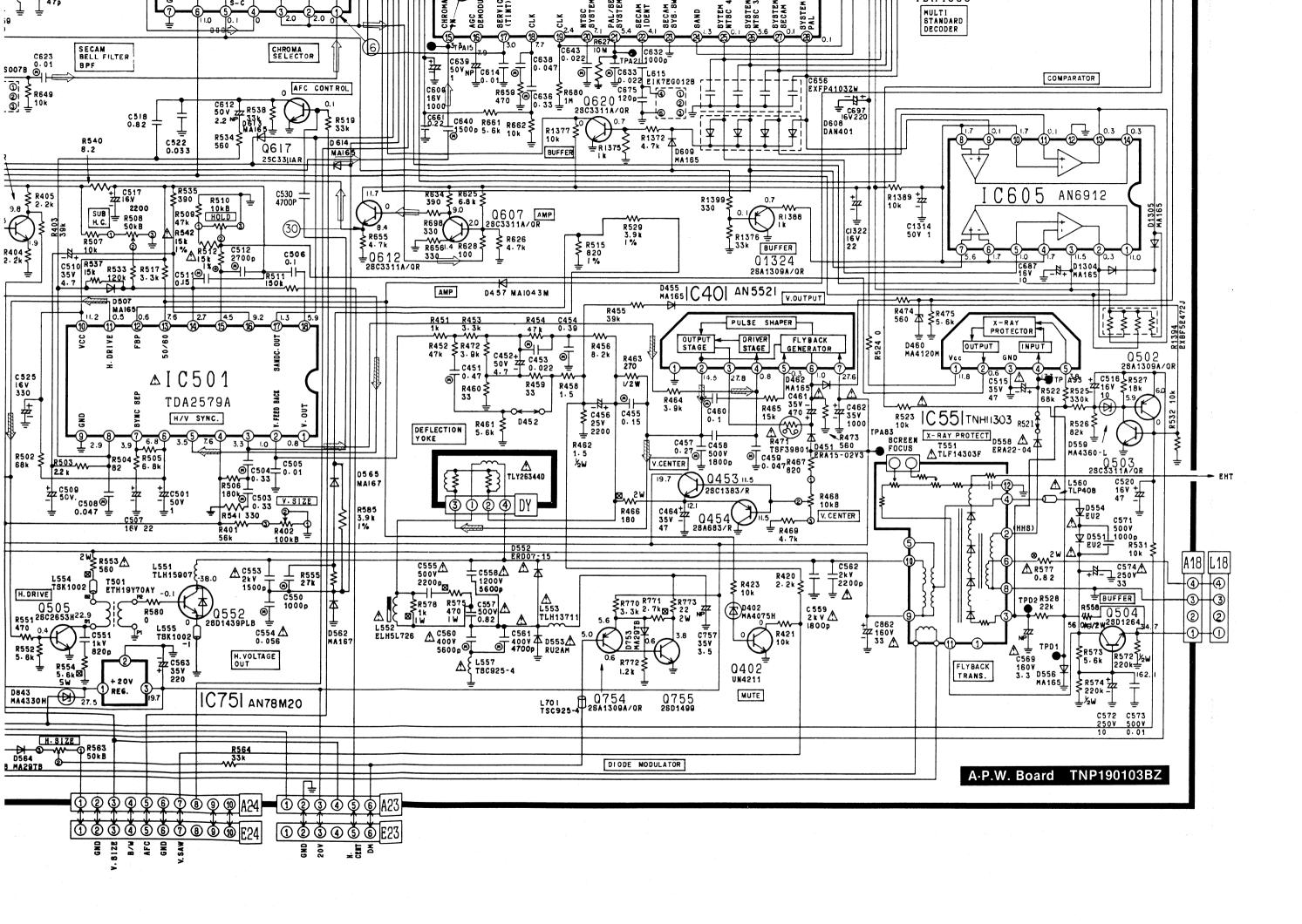


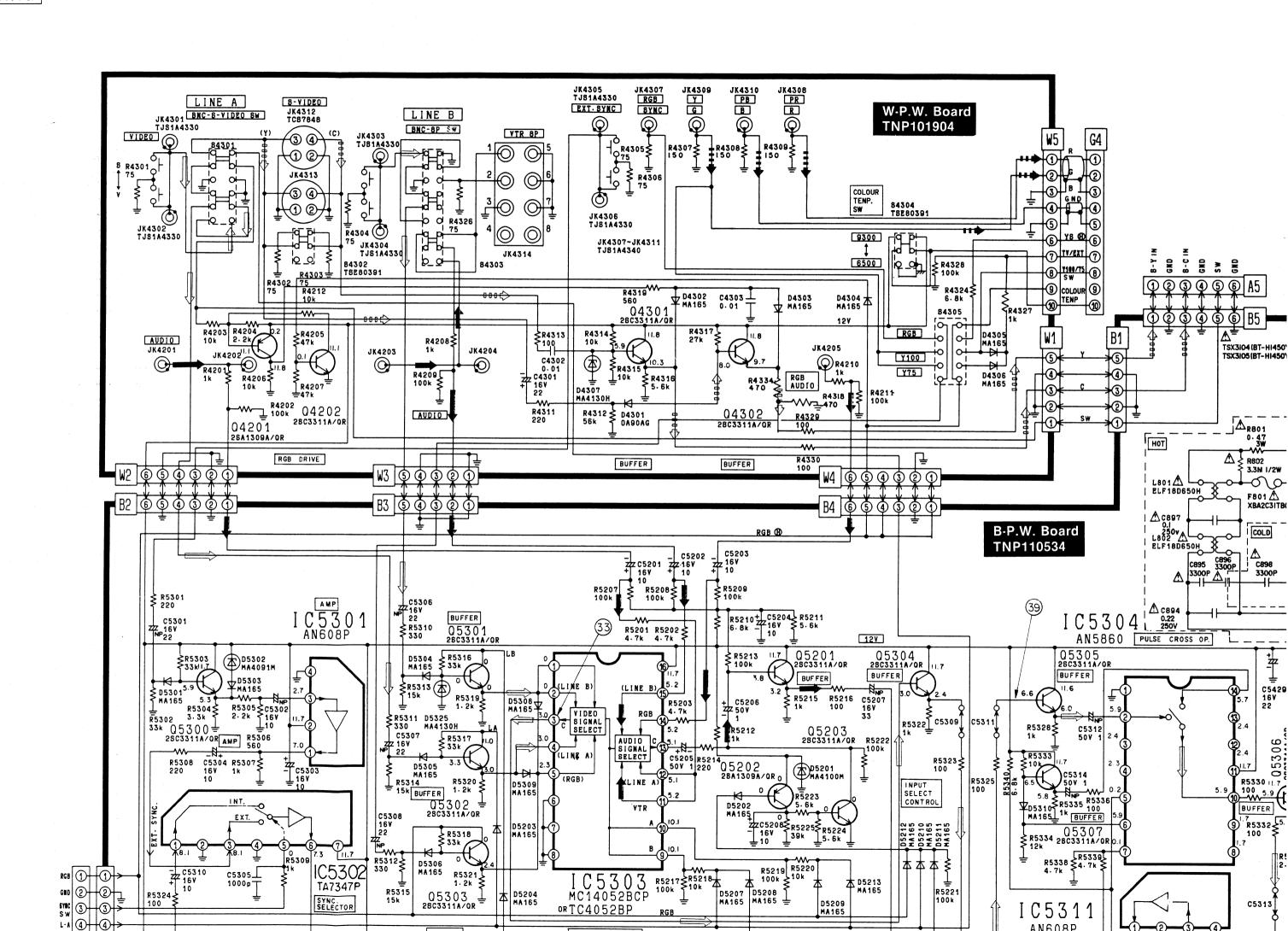


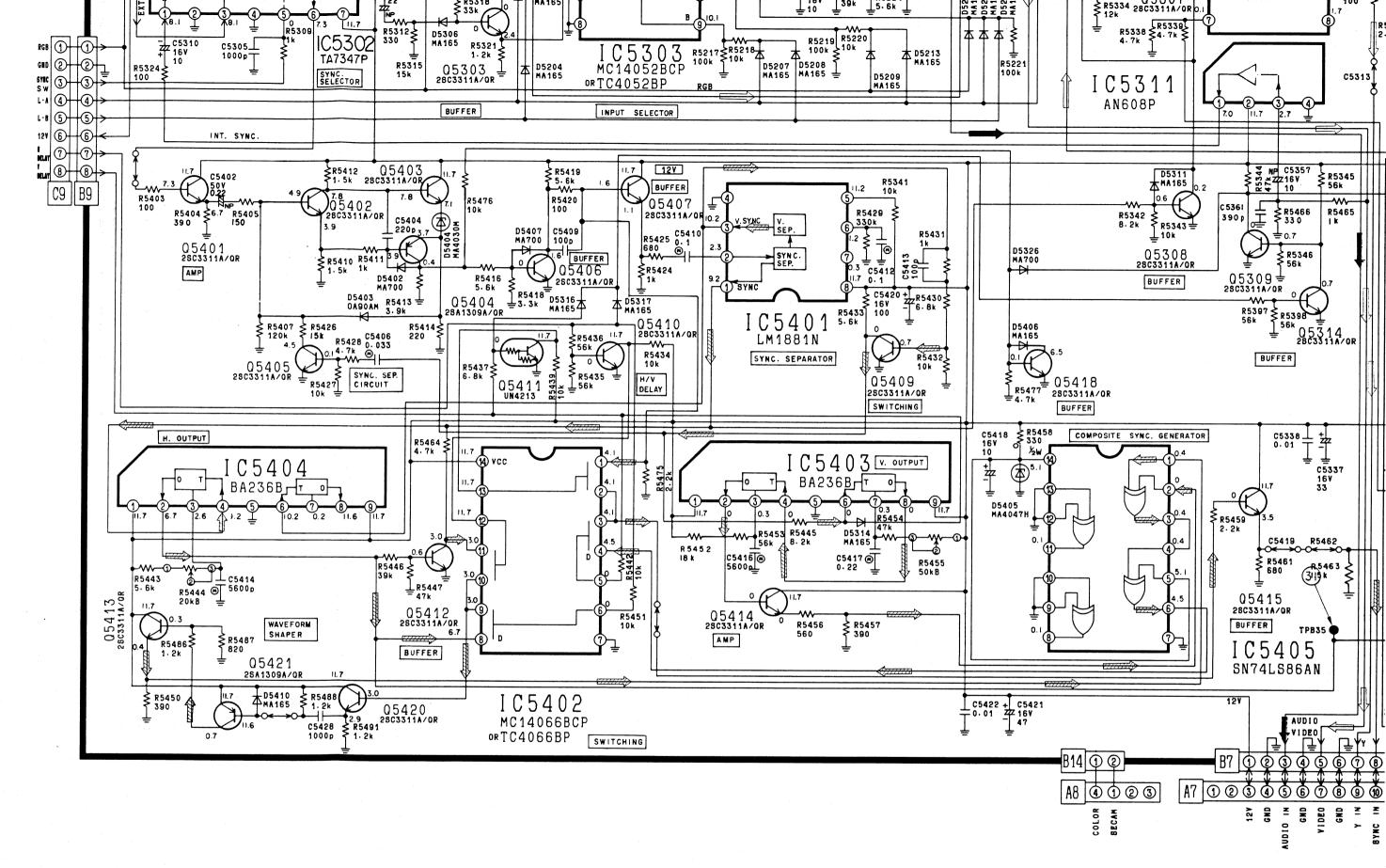


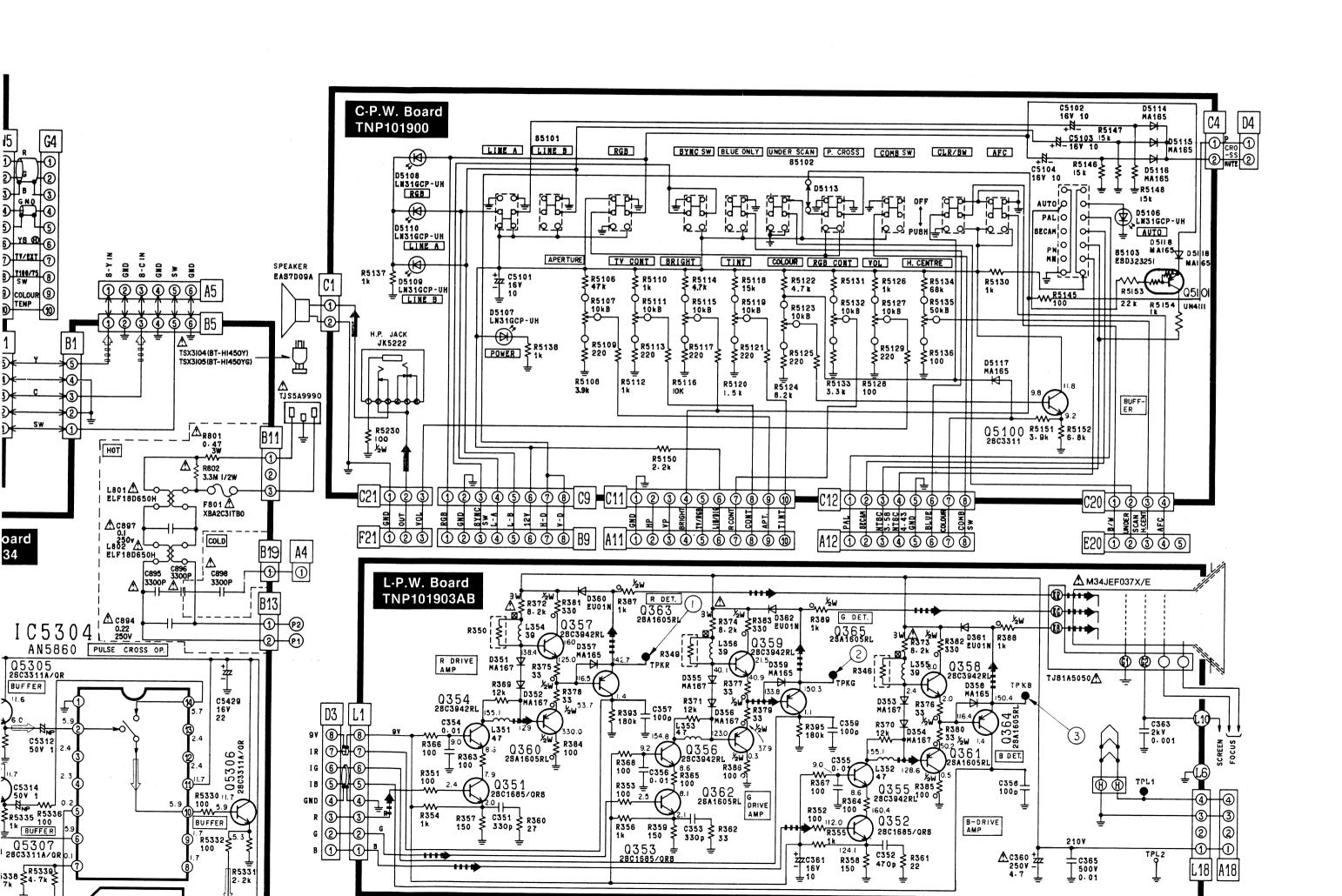


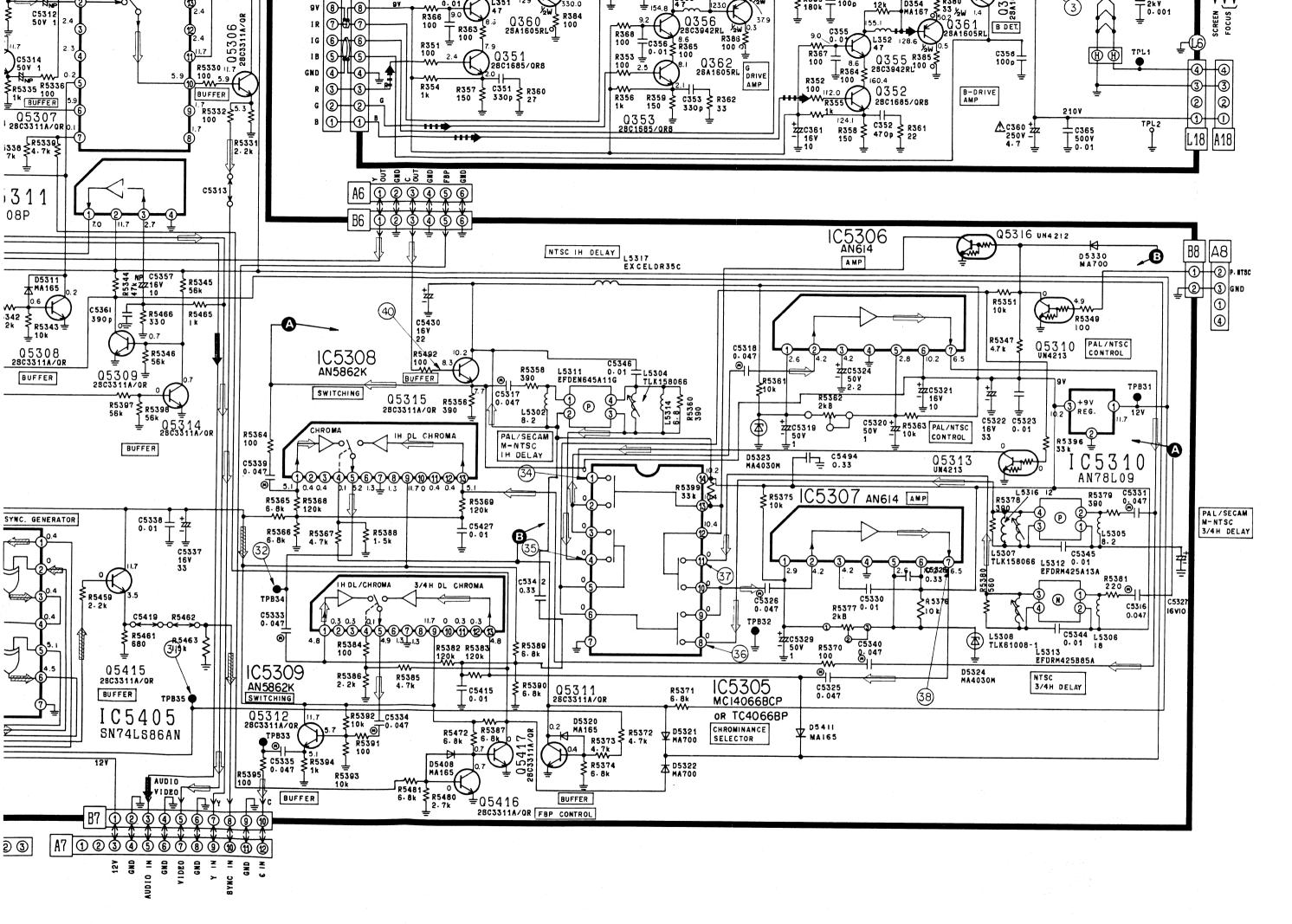


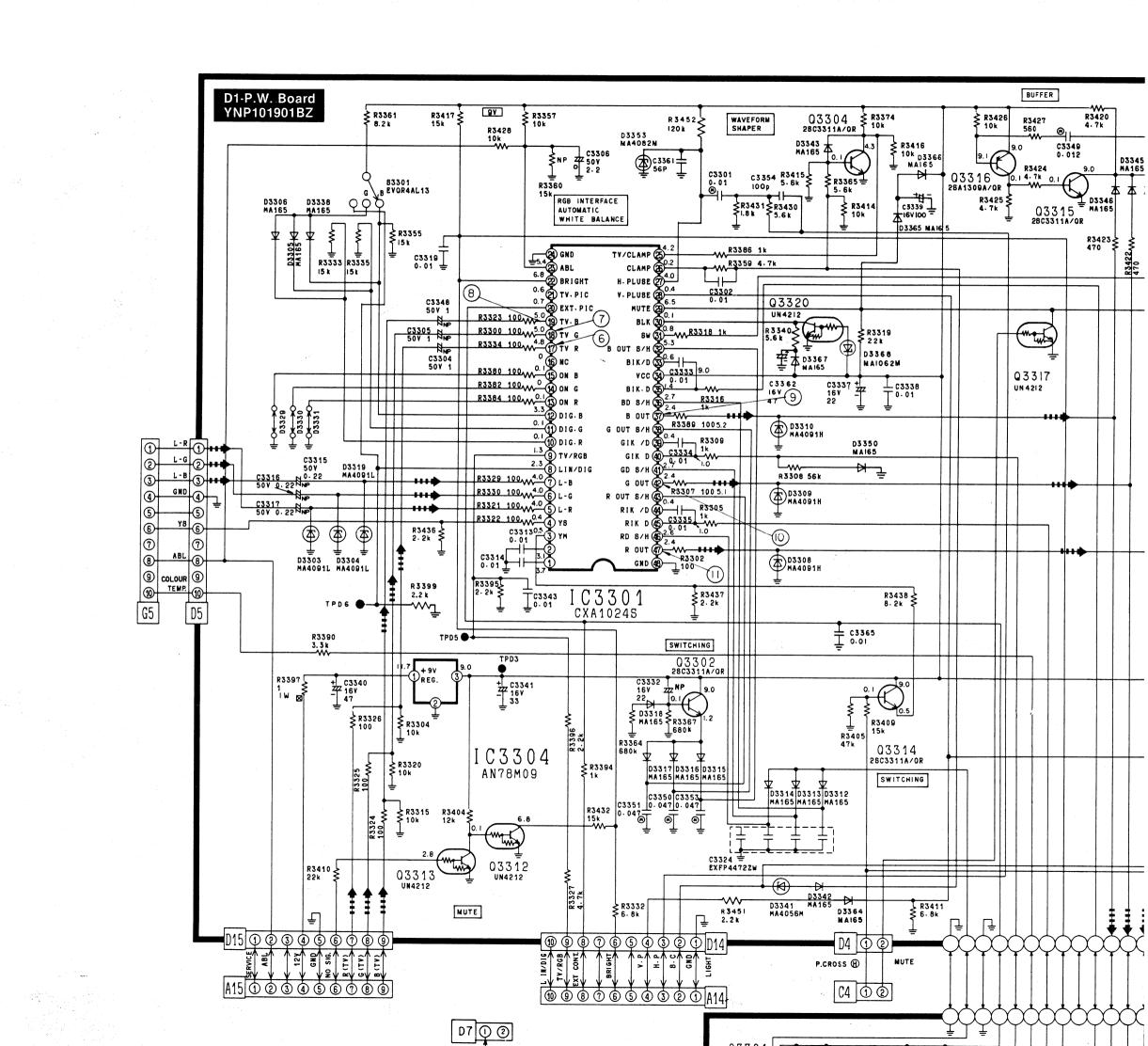


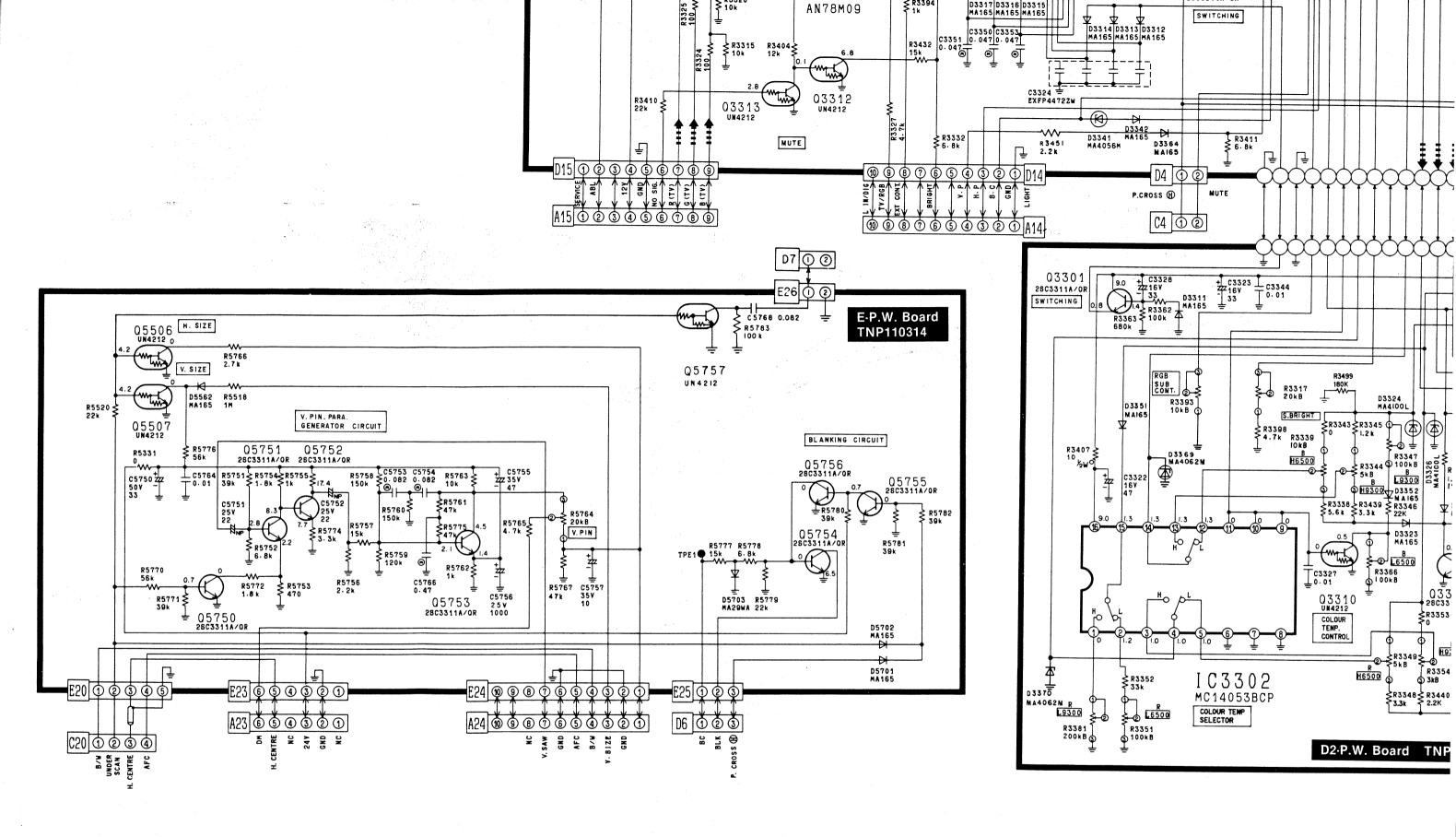


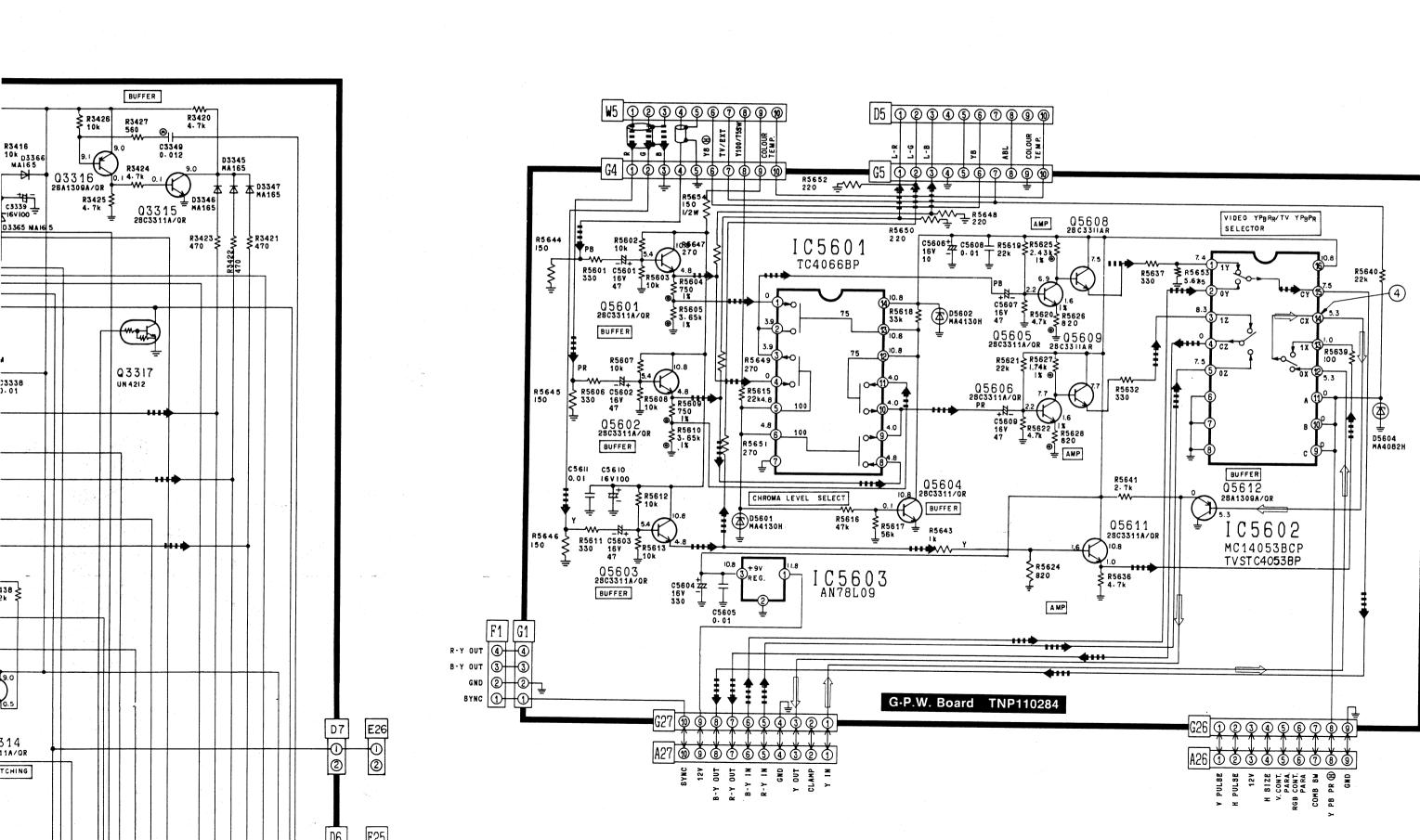


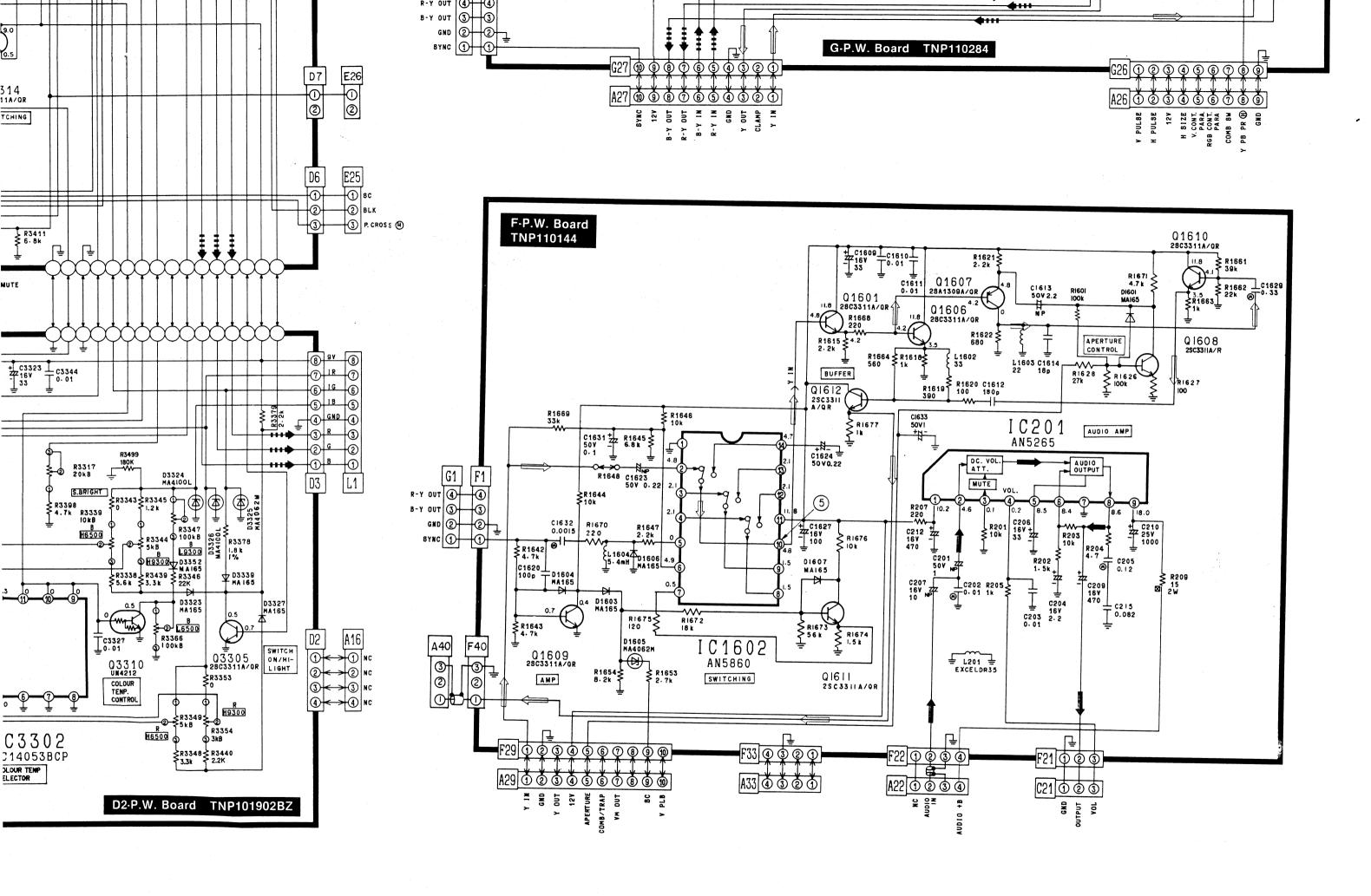




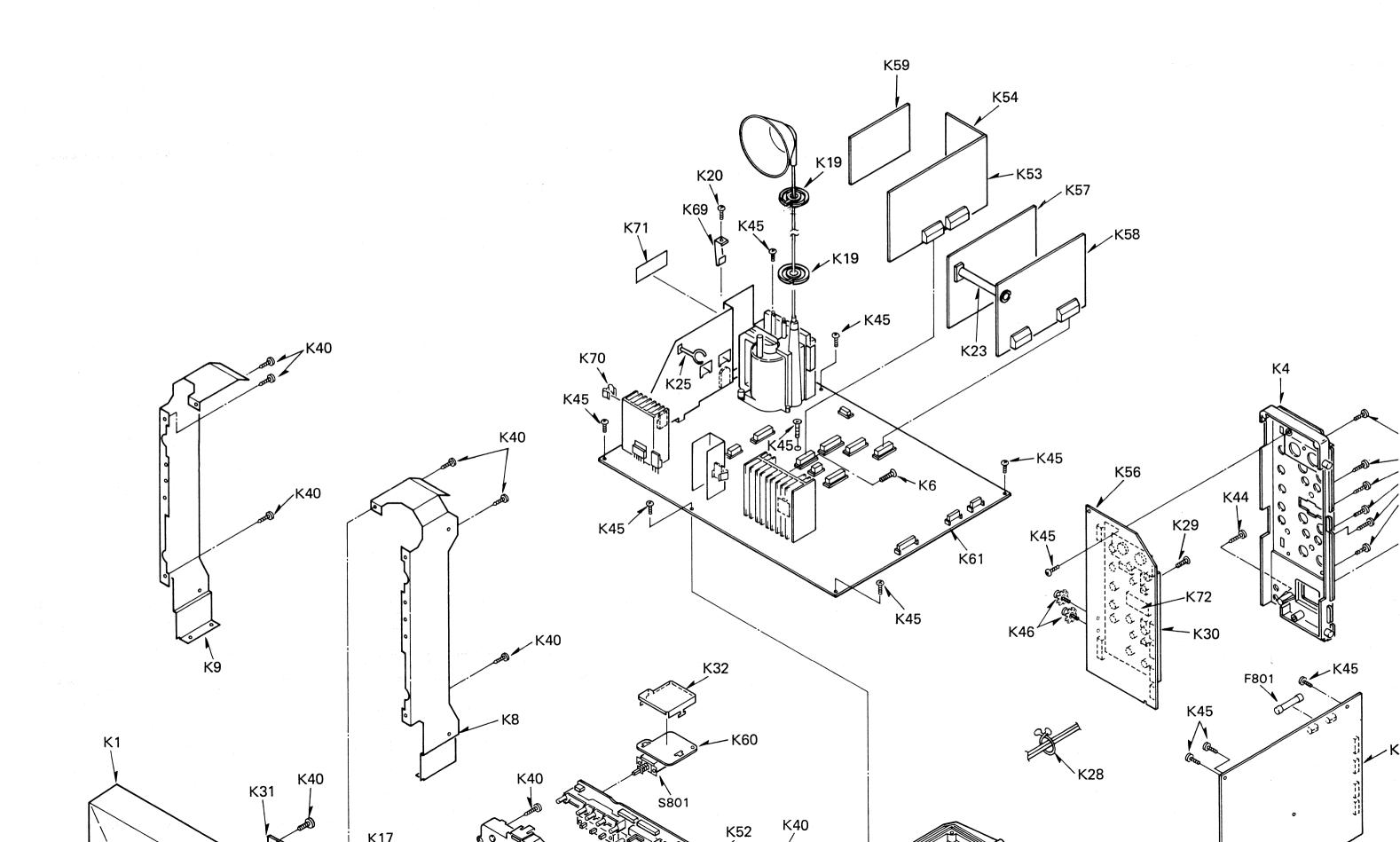


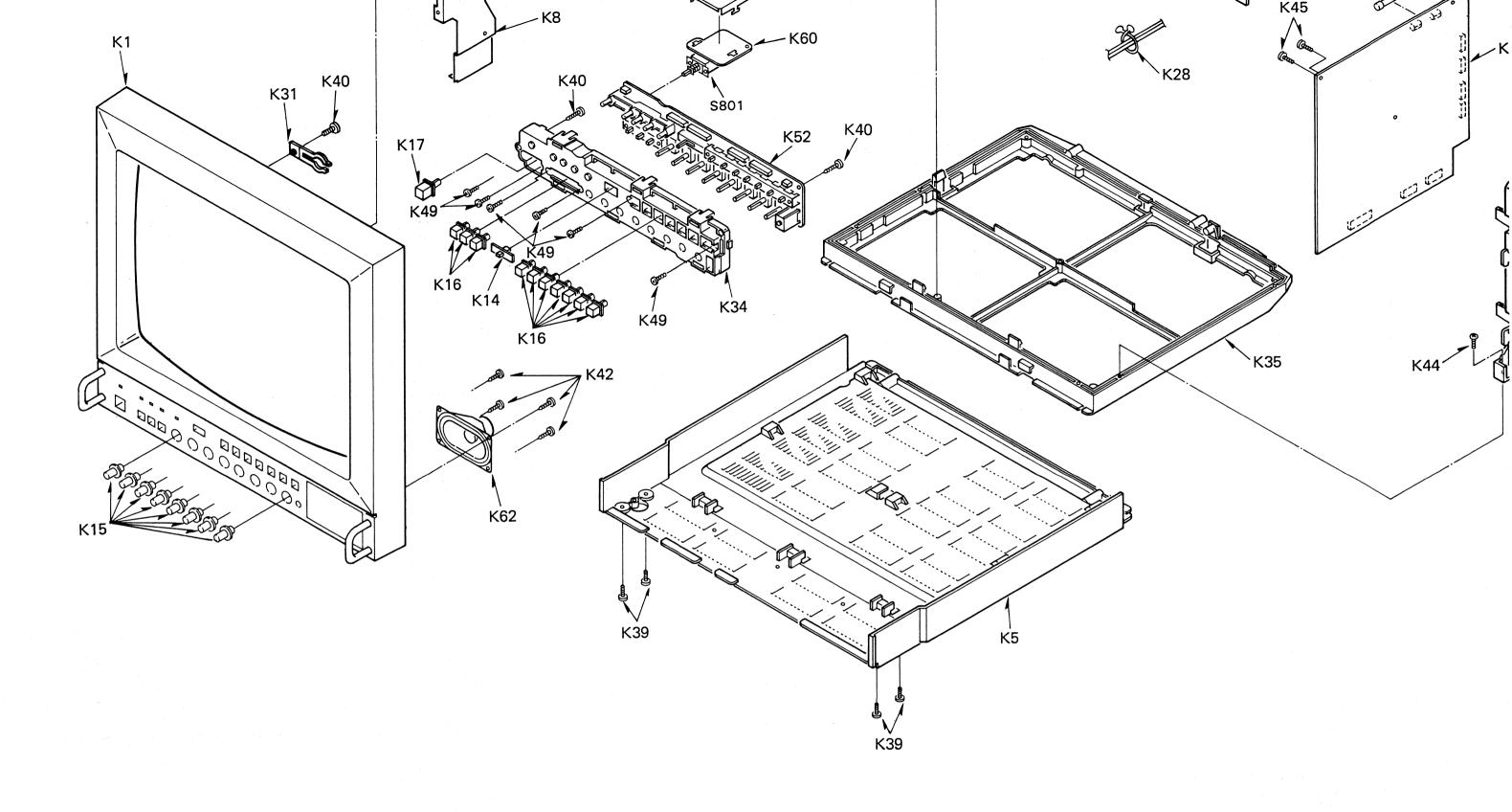


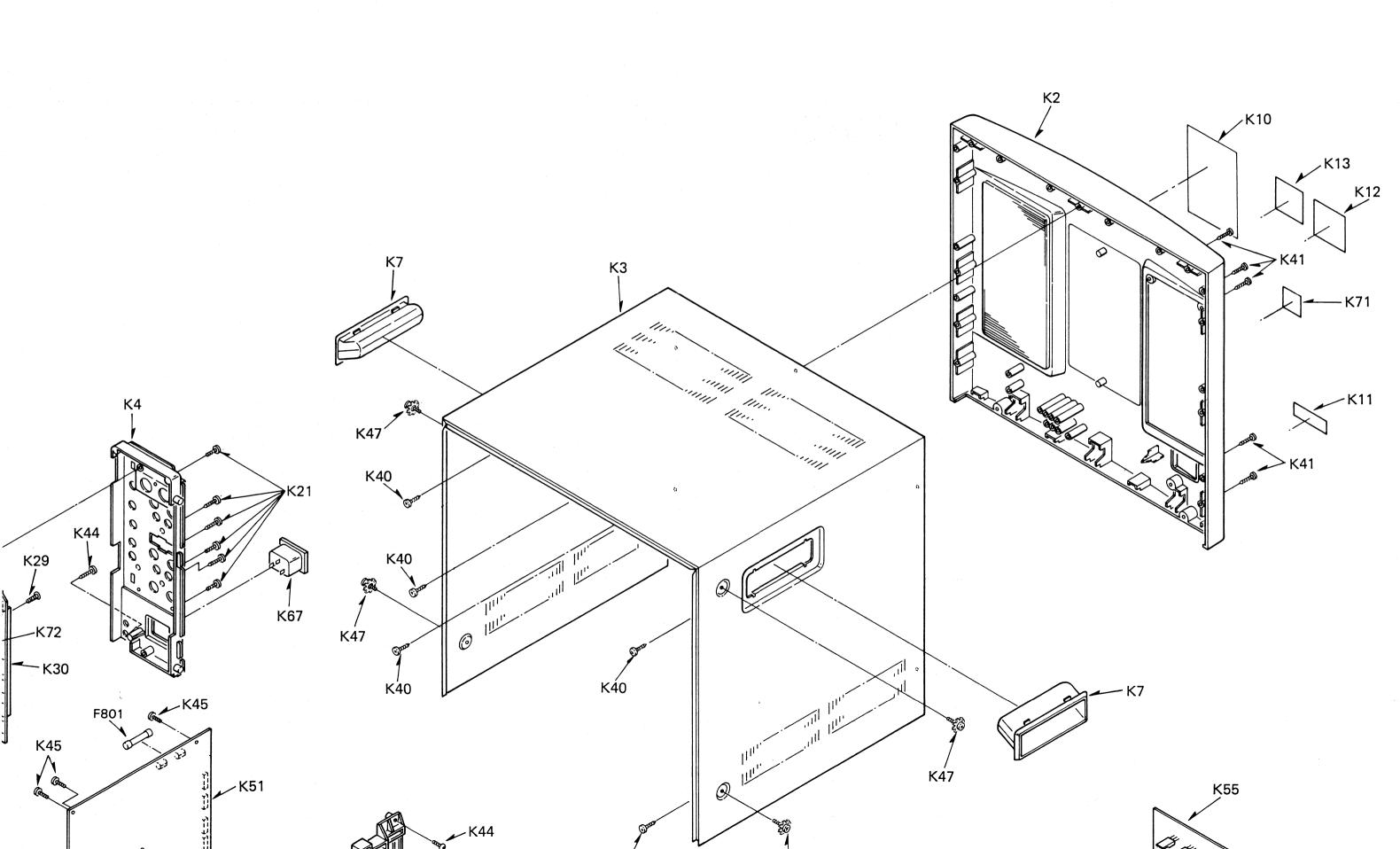


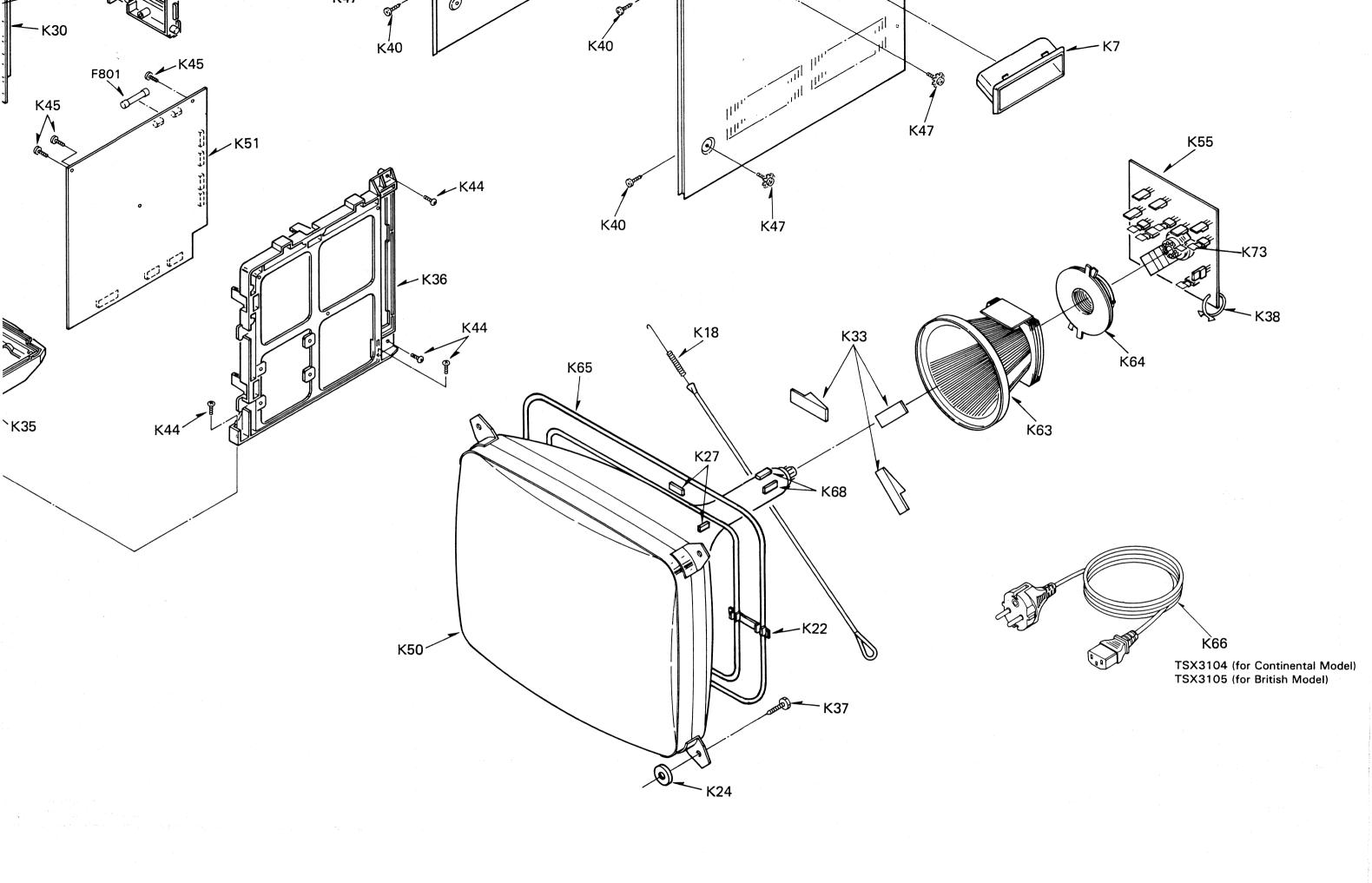


EXPLODED VIEWS









-Replacement Parts List-

Important Safety Notice -

Components identified by the International symbol Δ have special characteristics important for safety. When replacing any of these components use only manufacture's specified Parts.

Abbreviation of Part Name and Description

1. Resistor

2. Capacitor

Example:

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE ALLOWANCE

ECKF1H103ZF	С	0.01PF,	Z,	5 0V
Ť	ΥPI	ALI	OW	ANCE
TVPF		ALLOW	ANC	F

TYPE	ALLOWANCE					
C : Carbon F : Fuse M : Metal Oxide	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%					

TYPE	ALLOWANCE				
C : Ceramic E : Electrolytic P : Polyester PP : Polypropylene S : Styrol T : Tantalum	C: ±0:25 pF D: ±0.5 pF F: ±1 pF J: ±5% K: ±10% L: ±15% M: ±20% P: ±100%,-0% Z: ±80%,-20%				

Note: For M()() of Ref. No., not indicate illustration of it part on "Exploded Views".

Ref.No.	Part No.	Description		Ref.No.	Part No.	Description
					TXFMKO1H55	PARMALLOY
	CABINET &			K34	TMW13110	FRONT BRACKET
	MAIN PARTS	*	1	K35	TMX13101	CHASSIS BRACKET(M)
L				К36	TMX13102	PC BOARD BRACKET
K1	TKE1316B01	ESCUTCHEON ASS'Y			THT1024R	SCREW
	TKU589100	REAR COVER	ŀ	,		
	TKC131127	METAL CABINET		м9	XTB4+1OA	SCREW
		TERMINAL BOARD PANEL			XTB4+10J	SCREW
		BOTTOM CABINET		1	XTB4+15A	SCREW
K5	TKX137000	BUTTOM CABINET	1		XTB4+15AFZ	SCREW
İ	L		1		XTV3+10A	SCREW
	TKK139611	CRT BOSS	1	K42	ATV3+TOA	SCREW
K7	TKK69248-7	HANDLE	1		V-TVO. 404	SCREW
K8	TKZ138171-1	CHASSIS BRACKET(R)]		XTV3+12A	
K9	TKZ138172-1	CHASSIS BRACKET(L)	1	i	XTV3+8JFZ	SCREW
K12	TBM130599	VR LABEL	1		XTW3+1OT	SCREW
		į	1		XYA4+EF8	SCREW
K10	TBM130626-1	MODEL PLATE		K47	XYA4+EF8FC	SCREW
K11	TBM130628	AC LABEL	1			•
K13	TBM130634	FOCUS LABEL	1		XYN3+C8	SCREW
K14	TBX1354101	KNOB(TV SYSTEM SELECTOR)			M34JEFO37X/E	
K15	TBX8750101	KNOB(VR)	_	K52	TNP101900	PC BOARD W/COMPONENT(C
			1	K53	TNP101901BZ	PC BOARD W/COMPONENT(
K16	TBX8780300	PUSH BUTTON(BLACK)	1	K54	TNP101902BZ	PC BOARD W/COMPONENT(D
K17	TBX8780500	POWER BUTTON				
K18	TES1208	COIL SPRING		K55	TNP101903AB	PC BOARD W/COMPONENT(L
K19	TMM15404-1	SPACER RING	1		TNP101904	PC BOARD W/COMPONENT(W
M2	TMM15412-1	CLAMPER	1		TNP110144	PC BOARD W/COMPONENT(F
MZ	I IANIAL I DALLE I	CLAMPER	1		TNP110284	PC BOARD W/COMPONENT(
	TMM15423-1	READ CLAMPER(B)			TNP110314	PC BOARD W/COMPONENT(E
МЗ	TMM15423-1	CLAMPER	1	1833	110014	DOARD WY COM CITETORY
M4		CLAMPER		K60	TNP110315ZB	PC BOARD W/COMPONENT (F
K22	TMM15434	- · · · -]		TNP110534	PC BOARD W/COMPONENT (E
K23	TMM15442	HOLDER		1	TNP190103BZ	PC BOARD W/COMPONENT(A
K24	TMM15525	RUBBER CUSHION				SPEAKER
1			١,		EAS7DO9A	
K25	TMM16452	ANODE CLAMPER	▲	K63	TLY26344D	DEFLECTION YOKE
K27	TMM17514	DY WEDGE	1		L	
M5	TMM6428-1	CLAMPER	١.		TLC2061	CONVERGENCE COIL
K28	TMM6463	CLAMPER	A		TLK859059A	DEGAUSS COIL
М6	TMM7468	CLAMPER	Δ		TSX3104	POWER CORD(BT-H1450Y)
				K66	TSX3105	POWER CORD(BT-H1450YG)
M7	TMM76429-1	PURSE LOCK		1		(W/O AC PLUG)
K31	TMM76440-1	CLAMPER	Δ	K67	TJ\$5A9390	AC SOCKET
M8	TMM81416	CORD BAND (SMALL)	1	M10	TXAJTA22MJQZ	4P CONNECTOR ASSY(A22-
K32	TMK33532	BARRIER(POWER SW)	1	M11	TXAJTA35MDI 9	2P CONNECTOR ASSY (A35-

	Ref.No.	Part No.	Description	Ref.No	. Part No.	Descr	ription
					1		
		TXAJTA40MJLZ	3P CONNECTOR ASSY(A40-F40		7AN614	INTEGRATED C	
			3P CONNECTOR ASSY(A51-A17		BAN5862K	INTEGRATED C	
		TXAJTA8MJLZ	2P/2P CONNECTOR ASSY		9AN5862K	INTEGRATED C	IRCUIT
	M15		3P CONNECTOR ASSY(B11)		DAN78LO9	INTEGRATED C	IRCUIT
		TXAJTB19MJQZ	1P CONNECTOR ASSY(A4-B19)		1AN608P	INTEGRATED C	
	M17	TXAJTC1MJLZ	2P CONNECTOR ASSY(C1-SP)	10540	 LM1881N	INTEGRATED C	TROUTT
	1		10P CONNECTOR ASSY		2MC14066BCP	INTEGRATED C	
			1				
			BP CONNECTOR ASSY(C12-A12		3TVSBA236B	INTEGRATED C	
			4P CONNECTOR ASSY(C20-E20 3P CONNECTOR ASSY(C21-F21		4TVSBA236B 5SN74LS86AN	INTEGRATED C	
					,	4. 1	
		TXAJTC4MJLZ TXAJTC9MJLZ	2P CONNECTOR ASSY(C4-D4) 8P CONNECTOR ASSY(C9-B9)		1MC14066BCP 2MC14053BCP	INTEGRATED C	
			3P CONNECTOR ASSY(D6-E25)		3AN78LO9	1	
	M24 M25	TXAUT DOMOLZ	2P CONNECTOR ASSY(D7-E26)			INTEGRATED C	10011
	M26	TXFJTO1DAZ	1P GROUND READ(CRT)	Г	TRANSISTORS		
		VD.10001770	THEF (O. 45A)	0054	05046050		
₩		XBA2C31TB0 TSN85511	FUSE(3.15A) MAGNET	Q351 Q352	2SC1685Q 2SC1685Q	TRANSISTOR TRANSISTOR	
	1	TPC1311102	DUTER CARTON	Q353	2SC1685Q	TRANSISTOR	7
	M28	TPD131132	FILLER(UPPER)	Q354	25C3942RL	TRANSISTOR	
	M29	TPD132129	FILLER(BOTTOM)	Q355	25C3942RL	TRANSISTOR	
	29	1170132129	· ILLER(BUTTOM)	4355	2303542KL	KANSISIUK	
	M30	TPD139327	FILLER(FRONT)	Q356	2SC3942RL	TRANSISTOR	
	M31	TQE6615	SET COVER	Q357	2SC3942RL	TRANSISTOR	
	M32	XZBT6506	BAG(INSTRUCTION BOOK)	Q358	2SC3942RL	TRANSISTOR	
	M33	TQB510098	INSTRUCTION BOOK	Q359	2SC3942RL	TRANSISTOR	
	M34	TQB817002-1	SAFETY SHEET	Q 360	2SA1605RL	TRANSISTOR	
	M35	TQD1712009-1	PASS CARD	Q361	2SA1605RL	TRANSISTOR	
	M36	TQD62996	S.V.C LIST	Q362	2SA1605RL	TRANSISTOR	
	M37		WARRANTY CARD	Q363	2SA1605RL	TRANSISTOR	
	M38	TQF34651	PTB LABEL	Q364	2SA 1605RL	TRANSISTOR	
	K71	TQF37204	SERIAL NO.LABEL	Q365	25A16O5RL	TRANSISTOR	
	M39	TQF57221	POWER CORD LABEL	Q401	2SC3311AQ	TRANSISTOR	a l
		14101-61	(BT-H1450YG)	Q402	UN4211	TRANSISTOR	!
	L		(5. 111-3014)	Q451	2SC3311AQ	TRANSISTOR	
	Г	I.C		Q451 Q453	25C1383R	TRANSISTOR	
				Q454	2SA683R	TRANSISTOR	
		AN5265	INTEGRATED CIRCUIT	h=	001400010		
		AN5521	INTEGRATED CIRCUIT	Q502	25A1309AQ	TRANSISTOR	
A		TDA2579A	INTEGRATED CIRCUIT	Q503	2SC3311AQ	TRANSISTOR	
Δ	IC551	TNH11303	CIRCUIT BOARD(HIC)	Q504	2SD1264RL	TRANSISTOR	•
	10601	TA7347P	INTEGRATED CIRCUIT	Q505 Q552	2\$C2653HLB 2\$D1439PLB	TRANSISTOR TRANSISTOR	
		MC14066BCP	INTEGRATED CIRCUIT		1	1.	
	IC603	TDA4555	INTEGRATED CIRCUIT	Q601	2SC3311AQ	TRANSISTOR	
	I C605	AN6912	INTEGRATED CIRCUIT	Q 602	2SC3311AQ	TRANSISTOR	
		AN5613	INTEGRATED CIRCUIT	Q 603	2SC3311AQ	TRANSISTOR	
		AN5862K	INTEGRATED CIRCUIT	Q 604	2SC3311AQ	TRANSISTOR	*
	T 675 :	A N 17 D N 20 0	INTEGRATED CIRCUIT	Q 605	2SC3311AQ	TRANSISTOR	
A		AN78M20 STR61001	INTEGRATED CIRCUIT	Q606	2SC3311AQ	TRANSISTOR	19
دند		UPC2412HF	INTEGRATED CIRCUIT	Q607	1	1	
•			I	1 .		TRANSISTOR	
		SEO95N	INTEGRATED CIRCUIT	Q608		TRANSISTOR	
Δ	TC806	TLP634GR	INTEGRATED CIRCUIT	Q609 Q610	2SC3311AQ 2SC3311AQ	TRANSISTOR	
	IC1301	1TA7347P	INTEGRATED CIRCUIT	טופאי	Z 3C33 I IAW	TRANSISTOR	
		TVSTC4066BP	INTEGRATED CIRCUIT	Q612	2SC3311AQ	TRANSISTOR	
		3TA7347P	INTEGRATED CIRCUIT	Q613	25C3311AQ	TRANSISTOR	
		2AN5860	INTEGRATED CIRCUIT	Q614		TRANSISTOR	
		1CXA10245	INTEGRATED CIRCUIT	Q615		TRANSISTOR	
				Q617		TRANSISTOR	
		MC14053BCP	INTEGRATED CIRCUIT				
	IC3304	4AN78M09	INTEGRATED CIRCUIT	Q 620	2SC3311AQ	TRANSISTOR	ž.
	IC5301	AN608P	INTEGRATED CIRCUIT	Q 621		TRANSISTOR	
•		2TA7347P	INTEGRATED CIRCUIT	Q622	L	TRANSISTOR	
		MC14052BCP	INTEGRATED CIRCUIT	Q754	1 .	TRANSISTOR	
			1	Q755	1	TRANSISTOR	
		4AN5860	INTEGRATED CIRCUIT	0000	254970	TDANCTOTOD	
		MC14066BCP	INTEGRATED CIRCUIT	Q806		TRANSISTOR	
	TC2306	SAN614	INTEGRATED CIRCUIT	Q807	2SC3311AQ	TRANSISTOR	

Ref.No.	Part No.	Description	Ref.No	. Part No.	Descrip	tion
<u></u> № Q810	2SC2497AR	TRANSISTOR	05311	2SC3311AQ	TRANSISTOR	
A Q811	2SC3311AQ	TRANSISTOR		2SC3311AQ	TRANSISTOR	,
		TRANSISTOR		UN4213	TRANSISTOR	
Q812	2SC3311AQ			25C3311AQ	TRANSISTOR	
	2SC3311AQ	TRANSISTOR			TRANSISTOR	
Q1302	2SC3311AQ	TRANSISTOR	Q5315	2SC3311AQ	KANSISTUK	
01303	2SC3311AQ	TRANSISTOR		UN4212	TRANSISTOR	
01304	25C3311AQ	TRANSISTOR	05401	25C3311AQ	TRANSISTOR	
01304	2SC3311AQ	TRANSISTOR		2SC3311AQ	TRANSISTOR	
01305	230331140	TRANSISTOR		25C3311AQ	TRANSISTOR	
01306	2SC3311AQ 2SC3311AQ	TRANSISTOR		25A1309AQ	TRANSISTOR	
1 01300	230331144	TRANS1516K	40.0.			
01309	UN4212	TRANSISTOR		2SC3311AQ	TRANSISTOR	
01313	2SC3311AQ	TRANSISTOR	Q5406	2SC3311AQ	TRANSISTOR	
	2SC3311AQ	TRANSISTOR	Q5407	2SC3311AQ	TRANSISTOR	
	25C3311AQ	TRANSISTOR	05409	2SC3311AQ	TRANSISTOR	
	25A1309AQ	TRANSISTOR		2SC3311AQ	TRANSISTOR	
Q1320	25C3311AQ	TRANSISTOR		UN4213	TRANSISTOR	
Q1321	2SA1309AQ	TRANSISTOR		25C3311AQ	TRANSISTOR	
	25A1309AQ	TRANSISTOR	Q5413	2SC3311AQ	TRANSISTOR	
	25A1309AQ	TRANSISTOR	Q5414	2SC3311AQ	TRANSISTOR	
01325	UN4212	TRANSISTOR	1	2SC3311AQ	TRANSISTOR	
1325	U.1					
01326	2SC3311AQ	TRANSISTOR		2SC3311AQ	TRANSISTOR	
01327	UN4212	TRANSISTOR	Q5417	2SC3311AQ	TRANSISTOR	
01601	25C3311AQ	TRANSISTOR		2SC3311AQ	TRANSISTOR	
21001	25C3311AQ	TRANSISTOR		2SC3311AQ	TRANSISTOR	
		TRANSISTOR		25A1309AQ	TRANSISTOR	
Q1607.	2SA1309AQ	TRANSISTOR	N3-421	23A 1303AQ	I KANSISTOK	
01608	2SC3311AR	TRANSISTOR	05506	UN4212	TRANSISTOR	
01600	25C3311AQ	TRANSISTOR		UN4212	TRANSISTOR	
		TRANSISTOR		25C3311AQ	TRANSISTOR	
	2SC3311AQ	L I		25C3311AQ	TRANSISTOR	
	2SC3311AQ	TRANSISTOR			1	
01612	2SC3311AQ	TRANSISTOR	W 2603	2SC3311AQ	TRANSISTOR	
20004	2SC3311AQ	TRANSISTOR	05604	2SC3311AQ	TRANSISTOR	
Q3301	25C3311AQ			2SC3311AQ	TRANSISTOR	
03302	25C3311AQ	TRANSISTOR			TRANSISTOR	
Q3304	25C3311AQ	TRANSISTOR		2SC3311AQ		
Q3305	2SC3311AQ	TRANSISTOR		25C3311AQ	TRANSISTOR	
Q3310	UN4212	TRANSISTOR	Q 5609	2SC3311AQ	TRANSISTOR	
20010	UN4212	TRANSISTOR	05611	2SC3311AQ	TRANSISTOR	
Q3312	UN4212	i l		25A1309AQ	TRANSISTOR	
Q3313	UN4212	TRANSISTOR			TRANSISTOR	
	2SC3311AQ	TRANSISTOR		2SC3311AQ	the same of the sa	
Q3315	2SC3311AQ	TRANSISTOR	1.7	2SC3311AQ	TRANSISTOR	
Q3316	25A1309AQ	TRANSISTOR	Q5752	2SC3311AQ	TRANSISTOR	
02217	UN4212	TRANSISTOR	05753	2SC3311AQ	TRANSISTOR	
		TRANSISTOR	05754	2SC3311AQ	TRANSISTOR	-
	UN4212			25C3311AQ	TRANSISTOR	
Q4201	2SA1309AQ	TRANSISTOR	1	25C3311AQ	TRANSISTOR	3 F
Q4202	25C3311AQ	TRANSISTOR		UN4212	TRANSISTOR	
04301	2SC3311AQ	TRANSISTOR	W3/5/	P14+2 1 2	ILVALIA 21 OK	· ·
04302	25C3311AQ	TRANSISTOR	Γ	DIODES	1	
	25C3311AQ	TRANSISTOR	L			<u> </u>
N5 100	UN4111	TRANSISTOR	D351	MA167	DIODE	
N5101	050334440	TRANSISTOR	D352	MA 167	DIODE	\$
	2SC3311AQ	1	D352	MA 167	DIODE	
Q5202	2SA1309AQ	TRANSISTOR	D353	MA167	DIODE	
	000004440	TRANSISTOR	D354	MA 167	DIODE	
	2SC3311AQ	TRANSISTOR	5335	75.107	7.002	
	25C3311AQ	TRANSISTOR	D356	MA 167	DIODE	
	2SC3311AQ	TRANSISTOR		[
	2SC3311AQ	TRANSISTOR	D357	MA 165	DIODE	
Q5303	2SC3311AQ	TRANSISTOR	D358	MA 165	DIODE	
1 1			D359	MA 165	DIODE	
05304	2SC3311AQ	TRANSISTOR	D360	EUO1N	DIODE	
05305	2SC3311AQ	TRANSISTOR]		
	25C3311AQ	TRANSISTOR	D361	EUO1N	DIODE	
	2SC3311AQ	TRANSISTOR	D362	EUO1N	DIODE	
02300	25C3311AQ	TRANSISTOR	D401	MA29A	DIODE	
ا ا			D402	MA4075H	DIODE	
02300	25C3311AQ	TRANSISTOR	D451	ERA1502	DIODE	
	UN4213	TRANSISTOR				
M2216						

	Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
	0455	MA165	DIODE	D1605	MA4062M	DIODE
		MA 165	DIODE	D1606	MA165	DIODE
			DIODE	D1607	MA165	DIODE
			DIODE	D3303	MA4091L	DIODE
1 1				D3304	MA4091L	DIODE
	D462	MA165	DIODE			
	D502	MA165	DIODE	D3305	MA165	DIODE
	D503	MA4051M	DIODE	D3306	MA165	DIODE
		MA165	DIODE		MA4091H	DIODE
	D507		DIODE		MA4091H	DIODE
				1	MA4091H	DIODE
$ \Delta $	D551	TVSEU2	DIODE			
1			DIODE	D3311	MA165	DIODE
1 444	D553		DIODE		MA165	DIODE
1	D554		DIODE	D3313		DIODE
	D556	MA 165	DIODE		MA165	DIODE
					MA 165	DIODE
A	D558	ERA22-04	DIODE	500.0		
	D559	MA4360L	DIODE	D3316	MA 165	DIODE
	D562	MA 167	DIODE		MA165	DIODE
	D563	MA29TB	DIODE		MA 165	DIODE
	D564	MA29TB	DIODE		MA4091L	DIODE
	D304	7762312			MA 165	DIODE
1	D565	MA 167	DIODE	P3323	MA 103	1.001
		MA4047M	DIODE	D2204	MA4100L	DIODE
1	D607 D608	DAN401	DIODE		MA4062M	DIODE
1			DIODE			1
	D609	MA 165 MA 165	DIODE		MA4100L MA165	DIODE
ļ	D610	MIA 165	DIODE	,		· ·
	L	44.65	DIODE	D3338	MA165	DIODE
İ	D613	MA 165	DIODE	20000		DIODE
1	D614	MA 165	DIODE		MA 165	DIODE
1	D615	MA 165	, ,		MA4056M	DIODE
1	D616	MA 165	DIODE		MA 165	DIODE
1	D753	MA29TB	DIODE		MA 165	DIODE
1		DEVICOS	DIODE	p3345	MA 165	DIODE
14	D801	RBV608	DIODE		L	L
A	D805	TVSQB118	DIODE		MA165	DIODE
14	D806 D807	AUO1Z	DIODE		MA165	DIODE
14	D807	TVSES1	DIODE		MA165	DIODE
4	D809	ERA22-02	DIODE		MA165	DIODE
11			has reton	p3352	MA165	DIODE
ΙĄ	D810	ERPW5BON120D	POSISTOR			
14	D811	ERD31-04	DIODE		MA4082M	DIODE
4	D812	RL4Z	DIODE		MA165	DIODE
🐴	D813	ERD31-04	DIODE		MA165	DIODE
Δ	D811 D812 D813 D815	TVSAG01	DIODE		MA 165	DIODE
	1	THECONOR	DIODE	p3367	MA165	DIODE
Δ	D816	TVSSR2KN	DIODE	L		Lane
	D828	ASO1	DIODE		MA1062M	DIODE
4	D836 D840	MA 1062H	DIODE		MA4062M	DIODE
	D840	MA29TA	DIODE		MA4062M	DIODE
1	D842	MA4036M	DIODE		OA9OAG	DIODE
	L		DIODE	p4302	MA 165	DIODE
1	D843	MA4330H	DIODE	L	L	L
١.	D845	MA 182	DIODE		MA 165	DIODE
	D850	TVSSR2KN	DIODE		MA165	DIODE
		MA 165	DIODE		MA165	DIODE
1		MA 165	DIODE		MA 165	DIODE
		MA29TA	DIODE	D4307	MA4130H	DIODE
1	1			L		L
		MA 165	DIODE		LN31GCPUH	DIODE (LED)
1		MA 165	DIODE		LN31GCPUH	DIODE(LED)
		MA4075M	DIODE		LN31GCPUH	DIODE(LED)
	D1320	MA 165	DIODE		LN31GCPUH	DIODE(LED)
1	D1321		DIODE	D5110	LN31GCPUH	DIODE(LED)
		1		<u></u>	L	L
1		MA 165	DIODE		MA 165	DIODE
1		MA 165	DIODE		MA165	DIODE
-	D1326	MA 165	DIODE		MA 165	DIODE
		MA4051M	DIODE		MA165	DIODE
	D1601	MA 165	DIODE	D5118	MA165	DIODE
-			·		1	Lill
		MA 165	DIODE		MA4100M	DIODE
	D1604	MA 165	DIODE	D5202	MA165	DIODE

Ref.No.	Part No.	Description		Ref.No.	Part No.	Description	
D5203	MA 165	DIODE		L555	TSK1002-1	FERRITE CORE	
D5204		DIODE	Δ	L 557	TSC925-4	FERRITE CORE	
05207		DIODE	Δ	L560		CHOKE COIL	
05208		DIODE				DEGAUSS COIL	
D5209	MA 165	DIODE		L602	TSC925-4	FERRITE CORE	
D5210		DIODE				PEAKING COIL	
05211	MA 165	DIODE		L604	TLT056K991	PEAKING COIL	
D5212		DIODE		L605	-	PEAKING COIL	
D5213	MA 165	DIODE		L606		PEAKING COIL	
05301	MA 165	DIODE	l	L608	EIK7ESOO7B	VIF COIL	
			l			<u> </u>	
D5302	MA4091M	DIODE	1	L611	TLT056K991	PEAKING COIL	
D5303	MA 165	DIODE		L615	EIK7EGO12B	VIF COIL	
	MA 165	DIODE			TLK158066	DEGAUSS COIL	
D5305	MA 165	DIODE	İ		EIK7EGO13B	VIF COIL	
D5306	MA 165	DIODE		L618	EIK7EGO13B	VIF COIL	
1 1							
D5308-	MA 165	DIODE		L619	TLT100K991K	PEAKING COIL	
D5309	MA 165	DIODE	١.	L701	TSC925-4	FERRITE CORE	
	MA 165	DIODE		L801	ELF18D650H	LINE FILTER	
	MA 165	DIODE	Δ		ELF18D650H	LINE FILTER	
	MA 165	DIODE		L803	TSK1002	FERRITE CORE	
		•					
D5316	MA 165	DIODE			TSK1002	FERRITE CORE	
	MA 165	DIODE	Δ		TSK1002	FERRITE CORE	
	MA 165	DIODE	$\overline{\Delta}$		TSK1002	FERRITE CORE	
	MA 700	DIODE			TLP15523E	TRANS.	
	MA 700	DIODE	$ \Delta $		TSK1002	FERRITE CORE	
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-				
05323	MA4030M	DIODE	1	L819	TLP15523E	TRANS.	
	MA 4030M	DIODE	l	L1301	ELT10Z327	DELAY LINE	
	MA4130H	DIODE			TLT560K991K	PEAKING COIL	
	MA 700	DIODE	l		TLT150K991K	PEAKING COIL	
	MA 700	DIODE		•	ELT10Z397	COIL	
1 09330	MA 700	D1002					
05400	MA 700	DIODE		1311	TLT220K991K	PEAKING COIL	
	DA 90AM	DIODE	1		TLT330K991K	PEAKING COIL	
		DIODE	1	1	TLT220K991K	PEAKING COIL	
	MA 4030M	DIODE	1		TLT542K991K	PEAKING COIL	
	MA 4047H	DIODE	1		TLU8R2K186	PEAKING COIL	
05406	MA 165	DIODE	1	L3302	LOOKZKIOO	PEARING COIL	
D5 407	MA 700	DIODE	1	5304	TLK158066	DEGAUSS COIL	
	MA 165	DIODE	l		TLU8R2K186	PEAKING COIL	
		DIODE			TLU180J186	PEAKING COIL	
	MA 165	DIODE			TLK158066	DEGAUSS COIL	
	MA 165	DIODE			TLK61008-1	DEGAUSS COIL	
D5562	MA 165	DIODE		L3303	LKOTOOO	prunus corr	
DECC4	MA 4430H	DIODE		15311	EFDEN645A11G	DELAY LINE	
	MA4130H	DIODE	ŀ			CERAMIC FILTER	
	MA4130H	DIODE				CERAMIC FILTER	
	MA4082H	DIODE			TLT068K991K		
P5/01	MA 165	DIODE	1		TLT120K991K	PEAKING COIL	
1 ps/02	MA 165						
DE700	MA 29WA	DIODE	1	L5317	EXCELDR35C	LC COMBINATION	
D3 / U3	MAZJAM	p	1	1	EFDMA645B85F	1	
	COIL &		1		TLK66009-1	DEGAUSS COIL	
	TRANSFORMERS		l		TLK66056-1	DEGAUSS COIL	
L	IKANSFURMERS		1	1	TLK66009-1	DEGAUSS COIL	
L201	EXCELDR35C	LC COMBINATION	1				
L351	TLT470K991K	PEAKING COIL	1	LC1305	EFCA4R43MB3	CERAMIC FILTER	
L352	TLT470K991K	PEAKING COIL	1	1	ETH19Y7OAY	TRANS.	
L352	TLT470K991K	PEAKING COIL	A	1	TLF14303F	FLYBACK TRANS	
L353	TLT390K991K	PEAKING COIL		T801	ETS49K617V	TRANS.	
1354	1 - 1 - 3 - 3 - 1 K		-	· ·		<u>+ </u>	
L355	TLT390K991K	PEAKING COIL	1		CAPACITORS		
	TLT390K991K	PEAKING COIL	L				
L356	ELC08D058	CHOKE COIL		C201	ECEA1HNO10S	E 1UF	50V
L402		FERRITE CORE	l	C202	ECQB1H103JF	P 0.01UF J	50V
L501	TSC925-4		1	1	ECKF1H103ZF	C 0.01UF Z	50V
L551	TLH15907	COIL	1	C204	ECEA1HGE2R2	E 2.2UF	50V 50V
A	EL WEL 700	COL		1	ECQV1H124JZ	P 0.12UF J	50V 50V
⚠ L552 ⚠ L553	ELH5L726	COIL		D205	LOWVINIZ40Z	0.120	504
	TLH13711	CHOKE COIL	l	0000	ECEA1CGE22C	E 33UF	16V
L554	TSK1002	FERRITE CORE	1	C206	ECEA1CGE330	E 33UF	. 1.0.4

	Ref.No.	Part No.		Desc	ription			Ref.No.	Part No.			ription	
 -	C207	ECEA1CN100S	E	10UF		16V		C563	ECEA1VU221	E	220UF		35V
		ECEA1CU471	E E	470UF		167		C564	ECEA1CGE470	Ē	47UF		16V
		ECEA1EU102	-	1000UF		25V	A	C569.	ECEA2CN3R3S	Ē	3.3UF		160V
l				470UF		16V		C571	ECKD2H102KB2	5	1000PF	K	500V
İ			E				i			F		· .	
	C215	ECQV1H823JZ	P	0.082UF	J	50V		C572	ECEA2EGE 100	E	10UF		250V
	C351	ECCF 1H331J	С С С	330PF	J	50V		C573	ECKD2H103ZU	c	0.01UF	Z	500V
1	C352	ECCF1H471J	C	470PF	J	50V	 44	C574	ECEA2EGE330	E	33UF		250V
1	C353		С	330PF	J	50V	1	C600	ECEA1CU102	E	1000UF		16V
1	C354	ECKF1H103ZF	С	0.01UF	Z	50V	1	C602	ECQV1H473JZ	P	0.047UF	J	50V
	C355	ECKF1H103ZF	С	0.01UF	Z	50 V		C603	ECQV1H473JZ	P	0.047UF	. J	50V
	C356	ECKF1H103ZF	c ·	0.01UF	. z	50V		C604	ECQV1H473JZ	Р	0.047UF	J	50V
	C357	ECCF1H101J	С	100PF	J	50V	l	C605	ECQB1H1O3JF	P	0.01UF	J	50V
1	C358	ECCF1H101J	c	100PF	J	50V	1	C606	ECQB1H103JF	P	0.01UF	J	50V
l	C359	ECCF1H101J	C .	100PF	. J	50V	l.	C607	ECQB1H1O3JF	P	0.01UF	J	. 50V
Δ	C360	ECEA2EG4R7S	E	4.7UF		250V		C610	ECCF1H121JC	c	120PF	J	50V
													==
	C361 C363	ECEA1CGE100 ECKD3D102KBN	E	100F 1000PF	K	16V 2KV		C611 C612	ECQB1H1O3JF ECEA1HN2R2S	E	0.01UF 2.2UF	J	50V 50V
ı	C365		Č.	0.01UF	P	500V	1	C613	ECKF1H103ZF	c	0.01UF	Z	50V
1			Б		J	500V	1	C614	ECKF1H103ZF	c	0.01UF	Z	50V
1	C401	ECQV1H474JZ	Ľ	0.47UF			1			7	100PF	J	
	C451	ECQV1H474JZ	۲	0.47UF	J	50V	1	C615	ECCF1H101JC	_	IOOPF	U	50V
	C452	ECEA 1HFS4R7	E	4.7UF		50V		C616	ECCF 1H47OJC	C	47PF	J	50V
	C453	ECQB1H223JF	P	0.022UF	J :	50V	1	C617	ECQB1H103JF	Р	0.01UF	J	50V
1	C454	ECQV1H394JZ	Ρ	0.39UF	Ų	50V	1	C618	ECCF1H1O1J	C	100PF	J	50V
	C455	ECQV1H154JZ	Р	0.15UF	ل -	50V		C619	ECEA1CKN330	E	33UF		16V
l	C456	ECEA1EU222	E	2200UF		25V		C620	ECEA1CKN330	Ε	33UF		16V
	C457	ECQV1H274JZ	P	0.27UF	J	50V		C621	ECCF1H300JC	С	30PF	J	50V
1	C458	ECKD2H182KB2	C	1800PF	K	500V	1	C622	ECCF1H221JC	C	220PF	J	50 V
1	C459	ECQB1H473JF	P	0.047UF	J	50V	1	C623	ECQB1H103JF	P	0.01UF	J	50V
	C460	ECQV1H104JZ	P	0.1UF	Ĵ	50V	1	C626	ECEA1CKN330	Ε	33UF		16V
Δ		ECEA1VGE471	E	470UF		35V	1	C627	ECEA1CKN330	E	33UF		16V
	C462	ECEA1VU102	E	1000UF		35V	ł	C628	ECQB1H103JF	P	0.01UF	J	50V
۱"	C463	ECEA1CN100S	E	10UF		167		C632	ECKF1H102KB	c	1000PF	Ř	50V
ļ	C464	ECEATVU470	Ē	47UF		35V		C633	ECQB1H223JF	Þ	0.022UF	Ĵ	50V
		ECEATHUO10	E	1UF		50V	1	C634	TCRHAO3OE11	Ήъ	IMMER CAPA	-	501
	C501 C503	ECQV1H334JZ	P	0.33UF	J	50V		C636	ECQV1H334JZ	P	0.33UF	J	50V
	0504	500V4H334.I7	P	0.33UF	J	50V		C637	TCRHAO3OE11	L.	IMMER CAPA	CITOR	
Į.	C504	ECQV1H334JZ	c	0.33UF		50V	Į.	C638	ECQV1H473JZ	Ľ,	0.047UF	J	50V
ł	C505				J U			C639	ECEA 1HNO10S	F	1UF		50V
ı	C506	ECQV1H104JZ	۳	0.1UF	U	50V				E			
	C507 C508	ECEA1CU220 ECQV1H473JZ	E	22UF 0.047UF	J	16V 50V		C640 C642	ECQB1H152JF ECQB1H223JF	þ	1500PF 0.022UF	J	50V 50V
-			L					22.42	5000 444000 15		0.000115		504
	C509	ECEA1HUO10	E			50V	1	C643	ECQB1H223JF	P	0.022UF	J	50V
1	C510	ECEA1VU4R7	E	4.7UF		35V	1	C644	ECKF1H103ZF	C	0.01UF	Z	50V
l	C511	ECQV1H154JZ	P	0.15UF	Ų	50V	1	C645	ECKF1H103ZF	C	0.01UF	z	.50V
	C512	ECQP1H272JZ	PP	2700PF	J	50V	1	C646	ECCF 1H220J	C	22PF	Ų . i	50V
🕰	C515	ECEA1VU470	E	47UF		35V		C647	ECCF 1H680J	С	68PF	J	50V
	C516	ECEA1CU100	Ε	10UF		16V		C648	ECCF1H221J	С	220PF	J.	50V
1.	C517	ECEA1EGE222	Ε	2200UF		25V	1	C649	ECCF1H22OJ	С	22PF	J	50V
	C518	ECQV1H824JZ	Р	0.82UF	J	50V	1	C650	ECCF1H680J	С	68PF	J	50V
1	C520	ECEA1CU470	E	47UF		16V	1	C651	ECCF1H221J	С	220PF	J	50V
	C522	ECQV1H333JZ	P	0.033UF	J	50V		C652	ECCF1H121JC	С	120PF	J	50V
	C525	ECEA1CU331	E	330UF		16V		C653	ECCF1H121JC	С	120PF	J	50V
	C530	ECQB1H472JF	Р	4700PF	J	50V	1	C655	ECEA1CU220	Ε	22UF		16V
1	C550	ECOB1H102JF	P	1000PF	Ū	50V	1	C656	EXFP4103ZW	CR	COMBINATI	ON	
1	C551	ECKD3A821JBN	c	820PF	Ĵ	1KV	1	C661	ECQV1H224JZ	P	0.22UF	J	50V
	C553	ECKD3D152JBN	c	1500PF	J	2KV		C666	ECEA1CU470	E	47UF	-	16V
	C554	ECQV1H563JZ	P	0.056UF	. J	50V		C667	ECEA1CN220S	F	22UF		16V
A	C555	ECKD2H222KB2	С	2200PF	κ	500V	1	C668	ECCF1H100DC	C	10PF	D	50V
%	C557	ECWF2H824JN	PP	0.82UF	Ĵ	500V		C669	ECEA1ASN330	E	33UF	_	100
🛣	C558	ECWH12H562JS	PP	5600PF	Ĵ	1.2KV	1	C670	ECEATASN330	F	33UF		100
※	C228		C	1800PF		2KV	1	C671	ECEA 1ASN330	E	33UF		100
 	C559	ECKD3D182JBN ECQM4562JZ	P	5600PF	J	400V	1	20/1	LCEM IMSINGSO		3307		
🛠	C560		P	4700PF	J	400V 400V	ł	C673	ECEA1CN100S	Ε	10UF		16V
公	C561	ECQM4472JZ	c	2200PF	J	2KV	1	C675	ECCF1H121JC	C	120PF	ل ،	50V
نئے	C562	ECKD3D222JBN	~	220077		<u> </u>	1	P0/2	JECOT IFFIZ TOO	~	12055		

k		Part No.		Desci	ription		Ref.No.	Part No.	İ	→ Desci	ription	
k	679	ECEA1HGNO10	E	1UF		50V	C1319	ECEA1CN470S	E	47UF		16V
		ECEA1HGNO10	E	1UF		50V	C1322	ECEA1CU22O	E	22UF	i ·	16V
N.				1UF		50V		ECKF1H103ZF	lc.	0.01UF	Z.	50V
		ECEA1HGN010	=					ECCF1H47OJC	Č ·	47PF		50V
		ECEATHU010	E E	1UF		50V		ECEA1CU330	E	33UF		167
K	687	ECEA1CU100	E	10UF		16V	L 1809	ECEA ICOSSO				
		ECEA1CU330	E	33UF		16V		ECKF1H103ZF	C	0.01UF	Z	50V
- 1	693	ECEA1CU101	E	100UF		16V	C1611	ECKF1H103ZF	C	0.01UF	Z	50V
	695	ECEA1CU102	Ε	1000UF		16V	C1612	ECCF1H181JC	C	180PF	Ų	50V
- 1		ECEA1CU470	E	47UF		16V	L C1613	ECEA1HN2R2S	ÌΕ	2.2UF		50V
	0696 0697	ECEATCU221	HHHHH	220UF		16V	1	ECCF1H18OJC	c	18PF	J	50V
		TOTA DEWODEZ	_	3.5UF		35V	C1620	ECCF1H101JC	c	100PF	J	50V
	C757	ECEA35W3R5Z	C		. Р	500V	1	ECEA1HNR22S	Ē	0.22UF	•	50V
4	0802	ECKD2H472PU	L	4700PF			1		E	0.22UF	-	50V
Δ	C8O4	ECKD2H472PU	C	4700PF	P	500V	C1624	ECEA1HUR22				
Δ	C805	ECKD2H472PU	С	4700PF	Р	500V	C1627	ECEA1CU101	E	100UF		167
$\overline{\Delta}$	0806	ECOS2GG221N	Ε	220UF	-	400V	C1629	ECQV1H334JZ	P	0.33UF	ِ كِي	50V
	C9.07	ECEA1CGE470	F	47UF		16V	C1631	ECEA1HUOR1	E	0.1UF		50V
<u>₩</u>	C807	ECKD3D391JBN	<u>-</u>	390PF	· J	2KV	C1632	ECQB1H152JF	P	1500PF	J	50V
Ÿ	C809		Ľ				C1633	ECEA1HUO10	E	1UF		507
4	C811	ECKD2H391KB2	C	390PF	K	500V	1 1 -		Ľ		1	
Δ	C813	ECQE2104KF	P	0.1UF	K.	200V	C3301	ECQB1H103JF	۲	0.01UF	. J	50V
A	C811 C813 C814	ECKD3D471JBN	c	470PF	J	2KV	C3302	ECKF1H103ZF	C	0.01UF	Z	50V
						=0.4	00001	ECEA 4 LIVE CAS	_	.4116		50V
Δ	C815	ECQV1H333JZ	P	0.033UF	J	50V	C3304	ECEA1HKN010	E	1UF		
Δ	C818	ECES2CG221	E	220UF		160V	C3305	ECEA1HNO10S	E	1UF		50V
	C819	ECKD2H471KB5	С	470PF	K	500V	C3306	ECEA1HN2R2S	JE -	2.2UF		50V
	C820	ECKD2H391KB2	Ċ.	390PF	K	500V	C3313	ECKF1H103ZF	C	0.01UF	. Z	50V
Δ	C821	ECEA1EGE471	E	470UF		25V	C3314	ECKF1H103ZF	C	0.01UF	Z	50V
				20075	. к	500V	C3315	ECEA1HNR22S	F	0.22UF		5QV
	C824	ECKD2H391KB2	c	390PF			C3316	ECEA1HNR22S	Ē	0.22UF		50V
	C825	ECEA1VGE331	E	330UF		35V	1	1				
Δ	C826	ECEA1EF471	E	470UF		25V	C3317	ECEA1HNR22S	E	0.22UF	-	50V
	C829	ECKDNS102MB	ic	1000PF	M		C3319	ECKF1H103ZF	C	0.01UF	Z	50V
_	C830	ECEA1CGE331	E	330UF		16V	C3322	ECEA1CU470	Ε	47UF		167
Δ	C833	ECKD2H103ZU	C	0.01UF	z	500V	C3323	ECEA1CU100	E	10UF		167
44	C835	ECKD3D391JBN	c	390PF	Ū	2KV	C3324	EXFP4472ZW	CR	COMBINATI	ON	
(\)	C835	1	5	6800PF	J	200V	C3327	ECKF1H103ZF	C	0.01UF	Z	50V
	C837	ECQM2682JZ	<u></u>		U		C3328	ECEA1CU330	E	33UF	_	167
Δ	C844	ECEA1EGE 102	Þ	1000UF		25V 50V	C3332	ECEATCOSSO ECEATCKN220	E	22UF		. 167
Δ	C845	ECQV1H273JZ	P	0.027UF	J	50.4	L3332	ECEA ICKN220	Ī	2201	*	. 101
ĺ	C847	ECQV1H823JZ	Þ	0.082PF	J	50V	C3333	ECKF1H103ZF	С	0.01UF	· Z	50V
	C849	ECKDNS471MB	ĺc	470PF	M	4	C3334	ECKF1H103ZF	C	0.01UF	Z	50V
Δ				680PF	ĸ	50 V	C3335	ECKF1H103ZF	Ċ	0.01UF	Z	50V
Δ	C852	ECKF1H681KB	C	100UF	- 1	6.37	C3337	ECEA1CGE220	Ē	22UF	_	167
	C860 C861	ECEAOJU101 ECEA1VGE4R7	E	4.7UF		35V	C3338	ECKF1H103ZF	c	0.01UF	Z	50V
			L			4.0014	00000	F0F440U404		400115		16V
Δ	C862	ECEA160V33Z	E	33UF		160V		ECEA1CU101	E	100UF		
A	C870	ECEA1VU471	E	470UF		35V		ECEA1CGE470	Ε	47UF		167
	C871	ECEA1CU470	E	47UF		16V		ECEA1CGE330	E	33UF		167
	C872	ECQV1H124JZ	Р	0.12UF	J	50V	[C3343	ECKF1H103ZF	C	0.01UF	· Z	500
♪	C894	ECQU2A224MN	РΡ		M	250V		ECKF1H103ZF	c	0.01UF	Z	50V
	C895	ECKDNS332ME	C	3300PF	M		C3340	ECEA1HKNO10	F	1UF		500
	1		1				1 1				. 1	500
A	C896	ECKDNS332ME	C	3300PF	M			ECQB1H123JF	٢	0.012UF	J	
*	C897	ECQU2A104MN	PP	0.1UF	* M	250V		ECQB1H473JF	P	0.047UF	J	50V
		ECKDNS332ME	c	3300PF	M	-	C3351	ECQB1H473JF	P	0.047UF	J	500
40	C898		Ĕ	3300F7	1*1	16V		ECQB1H473JF	þ	0.047UF	Ü	50V
	C1301		٢						ľ	2.2 . ,	-	
	C1302	ECEA1CKN330	F	33UF		16V	C3354	ECCF1H101J	c	100PF	J	50V
l		FOOE THOROUGH	L	68PF	J	50V	C3361		C	56PF	Ü	50V
	C1303		C				C3362		E	47UF		167
	C1304		С	68PF	U	50V					. 7	500
1	C1305		E	47UF		10V		ECKF1H103ZF	C	0.01UF	Z	
	C1306	ECQB1H103JF	P	0.01UF	J	50V	C4301	ECEA1CKS220	E	22UF		.16V
1	C1307	ECCF1H101JC	C	100PF	J	50V	C4302	ECKF1H103ZF	c	0.01UF	Z	500
		F000140000144	<u></u>	TMMED OAD	A C T T C C	,		ECKF1H103ZF	C	0.01UF	z	50V
	C1308		ΠR	IMMER CAP	ACTION							167
	C1311	ECEA1AKN470	E	47UF		10V	C5101	ECEA1CKS100	E	10UF		
			E	47UF		16V	C5102	ECEA1CKS100	Ε	10UF		167
		ECEA1CU470	 -									
	C1312					50V	C5103	ECEA1CKS100	Ε	10UF		167
	C1312	ECEA1HU010	E	1UF		50V	C5103	ECEA1CKS100	E	10UF		160
	C1312 C1314 C1316	ECEA1HU010				50V 16V 16V		ECEA1CKS100	E	10UF		16V 16V

i .	Ref.No.	Part No.		Desc	ription		Ref.No	. Part No.		Descri	ptior	1 .
	C5202	ECEA1CU100	E	10UF	····	167	C5427	ECKF1H103ZF	C	0.01UF	Z	50V
		ECEA1CU100	F	10UF	•	16V	C5428	ECCF1H102J		1000PF	J	50V
		ECEA1CU100	E	10UF		167	C5429	ECEA1CU220	CE	22UF	-	16V
			Ē						-			
		ECEA1HU010	шшшш	1UF		50V		ECEA1CU220	=	22UF		16V
	C5206	ECEA1HU010	E	1UF		50V	C5494	ECQV1H334JZ	P	0.33UF	J	50V
		ECEA 1 CN33OS	E	33UF		16V	C5601	ECEA1CU470	E	47UF		16V
İ		ECEA1CU100	E	10UF		167		ECEA1CU470	E	47UF		16V
1	C5301	ECEA1CN22OS	Ε	22UF		16V	C5603	ECEA1CU470	Ε	47UF		16V
1	C5302	ECEA1CN100S	Ε	10UF		16V	C5604	ECEA1CU331	Ε	330UF		16V
		ECEA1CGE100	E	10UF		16V	C5605	ECKF1H103ZF	С	0.01UF	Z	50V
	C5304	ECEA1CU100	E	10UF		16V	C5606	ECEA1CU100	Ε	10UF		16V
		ECKF1H102KB	E	1000PF	K	50V	C5607	ECEA1CU470	Ε	47UF		16V
		ECEA1CN220S	E	22UF		167	C5608		C	0.01UF	Z	50V
l		ECEA 1 CN22OS	E	22UF		167	C5609	ECEA1CU470	Ē	47UF	_	16V
1	1		E	22UF		167		1	E			
	C5308	ECEA1CN220S	F	2201		164	C5610	ECEA1CU101		100UF		16V
		ECEA1CU100	E	10UF		16V	C5611	ECKF1H103ZF	C	0.01UF	Z	50V
Ī		ECEA 1HNO10S	E	1UF		50V	C5750	ECEA1HGE330	E	33UF		50V
		ECEA 1 HNO 10S	E	1UF		50V	C5751	ECEA1EN22OS	ĮΕ	22UF		25V
1	C5316	ECQV1H473JZ	P	0.047UF	J	50V	C5752	ECEA1EN22OS	E	22UF		25V
	C5317	ECQV1H473JZ	P	0.047UF	J	50V	C5753	ECQV1H823JZ	P	0.082UF	J	50V
	C5318	ECQV1H473JZ	P	0.047UF	. ل	50V	C5754	ECQV1H823JZ	þ	0.082UF	J	50V
1	C5319	ECEA1HU010	Ε	1UF		50V	C5755	ECEA1VU470	Ε	47UF		35V
1		ECEA 1HUO10	E	1UF		50V	C5756	ECEA1EU102	E	1000UF		25V
1			E	10UF		16V	C5757	ECEATVU100	E			25V 35V
1		ECEA1CU100	EEEE				1 1			10UF		
	C5322	ECEA1CU330	E	33UF		16V	C5764	ECKF1H103ZF	C	0.01UF	Z	50V
	C5323	ECKF1H103ZF	c	0.01UF	Z	50V	C5766	ECQV1H474JZ	P	0.47UF	J	50V
1	C5324	ECEA1HU2R2	E	2.2UF		50V	C5767	ECQB1H472JF	P	4700PF	J	50V
1	C5325	ECQV1H473JZ	P	0.047UF	J	50V	C5768	ECQV1H823JZ	Þ	0.082UF	Ū	50V
1	C5326	ECQV1H473JZ	Ь	0.047UF	Ĵ	50V	H-1-0,00			3.00201		
	C5326	ECEA1CU100	E	10UF	J	16V		RESISTORS				
	C5328	ECQV1H334JZ	þ	0.33UF	J	50V	R201	ERDS2TJ103	С	10K OHM	J	1/4W
1	C5329	ECEA1HGEO10	E	1UF		50V	R202	ERDS2TJ152	c	1.5K OHM	Ũ	1/4W
1		ECKF1H103ZF	6	0.01UF	z	50V	R203	ERDS2TJ103	h	10K OHM	Ĵ	1/4W
1		1	Ĕ	0.047UF	Ĵ	50V	R204	ERDS2TJ4R7	0000	4.7 OHM	J	1/4W
	C5331 C5333	ECQV1H473JZ ECQV1H473JZ	F	0.047UF	J	50V 50V	R205	ERDS2TJ102	c	1K OHM	J	1/4W
	C5334	ECQV1H473JZ	Þ	0.047UF	J	50V	R207	ERD25FJ221K	c	220 OHM	J	1/4W
1		ECQV1H473JZ	Þ	0.047UF	J	50V	R209	ERQ2CJP150S	Ĕ	15 OHM	Ű.	2W
	C5335		F		U				Ľ		-	
1	C5337	ECEA1CGE330	E	33UF	_	16V	R351	ERDS2TJ101	C	100 DHM	J	1/4W
1	C5338	ECKF1H103ZF	C	0.01UF	Z	50V	R352	ERDS2TJ101	C	100 DHM	Ų	1/4W
	C5339	ECQV1H473JZ	P	0.047UF	J	50V	R353	ERDS2TJ101	С	100 OHM	J	1/4W
	C5340	ECQV1H473JZ	P	0.047UF	J	50V	R354	ERDS2TJ102	c	1K OHM	Ų	1/4W
1	C5342	ECQV1H334JZ	P	0.33UF	J	50V	R355	ERDS2TJ102	C	1K OHM	J	1/4W
1	C5344	ECKF1H103ZF	C	0.01UF	Z	50V	R356	ERDS2TJ102	C	1K OHM	J	1/4W
	C5345	ECKF1H103ZF	c	0.01UF	Z	50 V	R357	ERDS2TJ151	000	150 OHM	ل ،	1/4W
		ECKF1H103ZF	Ċ	0.01UF	Z	50V	R358	ERDS2TJ151	C	150 OHM	J	1/4W
	C5357	ECEA1CN100S	E	10UF		16V	R359	ERDS2TJ151	c	150 OHM	J	1/4W
I		ECCF1H391J	c	390PF	J	50V	R360	ERDS2TJ270	Ċ	27 OHM	Ū	1/4W
		ECEA1HNR22S	E	0.22UF	~	50V	R361	ERDS2TJ220	F	22 OHM	J	1/4W
			۲		. 1		1		000			
1	C5404	1	c	220PF	J	50V	R362	ERDS2TJ330	~	33 OHM	Ų	1/4W
	C5406	ECQV1H333JZ	۲	0.033UF	J	50V	R363	ERDS2TJ101	С	100 OHM	J	1/4W
1	C5409		c	100PF	J	50V	R364	ERDS2TJ101	c	100 DHM	J	1/4W
1	C5410	ECQV1H104JZ	P	0.1UF	J	50V	R365	ERDS2TJ101	C	100 DHM	J	1/4W
1		ECQV1H104JZ	P	0.1UF	J	50V	R366	ERDS2TJ101	k	100 OHM	Ĵ	1/4W
1		ECCF1H101J	c	100PF	Ũ	50V	R367	ERDS2TJ101	0000	100 DHM	Ū	1/4W
	C5414		P	5600PF	ŭ	50V	R368	ERDS2TJ101	c	100 OHM	ŭ	1/4W
	C5415	ECKF1H103ZF	c	0.01UF	Z	50V	R369	ERDS2TJ123		12K OHM	J	1/4W
ı		ECQB1H562JF	P	5600PF	J	50V	R370	ERDS2TJ123	C	12K OHM	J	1/4W
1		1	P		J		1 1		c			1/4W
1		ECQV1H224JZ	г	0.22UF	U	50V	R371	ERDS2TJ123		12K OHM	J	
	C5418 C5420	ECEA1CU100 ECEA1CU101	E	10UF 100UF		16V 16V	A R372 A R373	ERG3SJ822 ERG3SJ822	М	8.2K OHM 8.2K OHM	J	3W 3W
		ECEA1CU470	Ī	47UF		16V	△ R374	ERG3SJ822	М	8.2K OHM	J	3₩
1		ECKF 1H103ZF	C	0.01UF	z	50V	R375	ERDS1FJ330	c	33 OHM	J	1/2W

Ref.No.	Part No.	Description	on	Ref.No.	Part No.	Descri	otion
R376	ERDS1FJ330	C 33 OHM J	1/2W	R508	EVND1AAOOB54	CONTROL B	50K OHM
	ERDS1FJ330	с ззонм Ј	1/2W	R509	ERDS2TJ473	C 47K DHM	J 1/4W
F 1	ERDS1FJ330	C 33 OHM J	1/2W	R510	EVND1AAOOB14	CONTROL B	10K OHM
	ERDS 11 0000	C 33 OHM J	1/2W	R511	ERDS2TJ154	C 150K OHM	J 1/4W
F	ERDS1FJ330	C 33 OHM J C 33 OHM J C 33 OHM J C 33 OHM J	1/2W	⚠ R512		M 15K OHM	F 1/4W
R380				AS R312	LR0320KI 1302		•
P	ERQ12AJ331	F 330 DHM J F 330 DHM J	1/2W	R515	EROS2CKF8200	M 820 OHM	F 1/4W J 1/4W
R382	ERQ12AJ331	F 330 OHM J	1/2W	R517	ERDS2TJ332	C 3.3K DHM	
R383	ERQ12AJ331	F 330 OHM J	1/2W	R519	ERDS2TJ333	с ззконм	J 1/4W
	ERDS1FJ101	C 100 DHM J	1/2W	R522	ERDS2TJ683	C 68K OHM	J 1/4W
	ERDS1FJ101	C 100 DHM J	1/2W	R523	ERDS2TJ103	C 10K DHM	J 1/4W
		C 100 DHM J	1/2W	R525	ERDS2TJ334	C 330K DHM	J 1/4W
	ERDS1FJ101			4 1)	C 82K OHM	J 1/4W
	ERDS1FJ102	C 1K OHM J		R526	ERDS2TJ823	028 01111	
R388	ERDS1FJ102	C 1K OHM J	•	R527	ERDS2TJ183	C 18K OHM	J 1/4W
R389	ERDS1FJ102	C 1K OHM J	1/2W	R528	ERDS2TJ223	C 22K DHM	
R393	ERDS2TJ184	C 180K DHM J	1/4W	R529	EROS2CKF3901	м з.9к онм	F 1/4W
DOOF	ERDS2TJ184	C 180K OHM J	1/4W	R531	ERDS2TJ103	C 10K OHM	J. 1/4W
R395				R532	ERDS2TJ103	C 10K DHM	U 1/4W
R401	ERDS2TJ563	C 56K OHM J	1/4W	1			J 1/4W
]]	ļ		R533	ERDS2TJ124		
R402	EVND1AA00B15		OOK OHM	R534	ERDS2TJ561	C 560 OHM	J 1/4W
R403	ERDS2TJ393	с зэконм Ј	1/4W	R535	ERDS2TJ391	с зао онм	J 1/4W
R404	ERDS2TJ222	C 2.2K OHM J	1/4W	R537	ERDS2TJ153	C 15K OHM	J 1/4W
		C 2.2K OHM J		R538	ERDS2TJ333	с ззк онм	J 1/4W
R405	ERDS2T (222				ERD25FJ8R2K	C 8.2 OHM	
R407	ERDS2TJ822	C 8.2K OHM J		R540			
R409	ERDS2TJ393	C 39K OHM 7		R541	ERDS2TJ331	C 330 OHM	
R420	ERD25FJ222K	C 2.2K OHM J	1/4W	⚠ R542	ER025CKF1502	M 15K OHM	F 1/4W
R421	ERD25FJ103K	C 10K DHM 3	1/4W	R551	ERD25FJ471K	C 470 OHM	J 1/4W
R423	ERDS2TJ103	C TOK OHM		R552	ERDS2TJ562	C 5.6K OHM	J 1/4W
		C 1K DHM		▲ R553	ERQ2CJP561	F 560 OHM	J 2W
R451	ERDS2TJ102			1 — 1	1 .	1	J 5W
R452	ERDS2TJ473	C 47K OHM U		R554	ERG5ZJ562	M 5.6K OHM	
R453	ERDS2TJ332	С 3.3К ОНМ 0	1/4W	R555	ERDS2TJ273	C 27K OHM	J 1/4W
R454	ERDS2TJ473	C 47K OHM 0	1/4W	R556	ERDS2TJ102	C 1K DHM	J 1/4W
R455	ERDS2TJ393	C 39K OHM U	1/4W	R557	ERDS2TJ562	C 5.6K OHM	J 1/4W
	ERDS2TJ822	C 8.2K OHM		R558	ERDS1FJ564	C 560K OHM	J 1/2W
R456	I-			R563	EVND1AAOOB54		50K OHM
R458 R459	ERDS2TJ1R5 ERDS2TJ330	C 1.5 OHM C		R564	ERD25FJ333K	C 33K OHM	J 1/4W
1755	EKB52: 0000		•				
R460	ERDS2TJ330	C 33 OHM C		R572	ERDS1FJ224	C 220K OHM	J 1/2W
R461	ERDS2TJ562	C 5.6K OHM 4	1/4W	R573	ERDS2TJ562	C 5.6K OHM	J 1/4W
R462	ERDS1FJ1R5	C 1.5 OHM		R574	ERDS1FJ224	C 5.6K OHM C 220K OHM	J 1/2W
	ERDS1FJ271	C 270 DHM		R575	ERG1SJ471	M 470 OHM	J 1W
R463 R464	ERDS1F0271	C 270 DHM C		▲ R577	ERQ2CKPR82S	F 0.82 OHM	J 2W
()				L			
R465	ERDS2TJ153	C 15K OHM 4	•	R578	ERG1ANJ102	M 1K OHM	J 1W 1/4W
R466	ERG2SJU181	M 180 OHM		R580	ERD25TCO	C O OHM	
R467	ERDS2TJ821	C 820 OHM 4		R585	EROS2CKF3901	м з.9к онм	F 1/4W
R468	EVNDXAAOOB14	CONTROL B	10K OHM	R600	ERQ12HJ3R3	F 3.3 OHM	J 1/2W
R469	ERDS2TJ472	C 4.7K OHM	1/4W	R601	ERDS2TJ331	с 330 ОНМ	J 1/4W
A D474	TSF39801	FUSE		R602	ERDS2TJ122	C 1.2K OHM	J 1/4W
A R471			1/4W	R603	ERDS2TJ331	C 330 DHM	J 1/4W
R472	ERDS2TJ392						,
R473	ERDS2TJ561	C 560 OHM		R604	EVND4AAOOB52		500 OHM
R474	ERDS2TJ561	C 560 OHM L	7	R605	ERDS2TJ273	C 27K OHM	J 1/4W
R475	ERDS2TJ562	C 5.6K DHM 4	1/4W	R606	ERDS2TJ562	C 5.6K OHM	J 1/4W
R480	ERDS2TJ822	C 8.2K OHM	1/4W	R607	ERDS2TJ561	C 560 DHM	J 1/4W
_	ERDS2TJ392	C 3.9K OHM		R608	ERDS2TJ101	C 100 OHM	U 1/4W
R481						C 560 OHM	
R482	ERDS2TJ562	C 5.6K OHM		R609	ERDS2TJ561		
R483	ERDS2TJ153	C 15K OHM 4		R610	ERDS2TJ561	C 560 OHM	J 1/4W
R484	ERDS2TJ101	C 100 OHM 4	1/4W	R611	ERDS2TJ561	C 560 OHM	J 1/4W
0495	ERDS2TJ102	C 1K OHM	1/4W	R612	ERDS2TJ561	C 560 OHM	1/4W
R485	1			1 1	ERDS2TJ561	C 560 OHM	J 1/4W
R502	ERDS2TJ683	C 68K OHM	* .	R613	i .		_
R503	ERDS2TJ222	C 2.2K DHM	• .	R614	ERDS2TJ103	C 10K OHM	J 1/4W
R504	ERDS2TJ820	C 82 OHM		R615	ERDS2TJ103	C 10K DHM	J 1/4W
R505	ERDS2TJ682	C 6.8K OHM	1/4W	R616	ERDS2TJ152	C 1.5K OHM	J 1/4W
	EDDCOT HOA	C 180K DHM .	1/4W	R617	ERDS2TJ333	с ззконм	J 1/4W
R506	ERDS2TJ184	C 180K DHM U	1/ 77	1 11011		0 00,7 0,1,1-1	• ., .,

Ref.No.	Part No.	ı.	Descrip	tion	· · · · · · · · · · · · · · · · · · ·		Ref.No.	Part No.		. [Descri	ptio	n
R619	ERDS2TJ102	C 1K	OHM	U	1/4W		R687	ERDS2TJ472	c	4.7K	ОНМ	J	1/4W
	ERDS2TJ181		OHM	U	1/4W	İ	R688	ERDS2TJ472	c	4.7K	OHM	J	1/4W
	ERDS2TJ331	c 330		Ű	1/4W	ŀ	R689	ERDS2TJ223	c		OHM	Ũ	1/4W
		6 46	OHM	Ĵ	1/4W	1	R690	ERDS2TJ472	c	4.7K		ŭ	1/4W
T T	ERDS2TJ102	1		-									
R624	ERDS2TJ331	C 330	OHM	J	1/4W		R691	ERDS2TJ223	С	22K	OHM	J	1/4W
	ERDS2TJ682	C 6.8K C 4.7K S 10M C 100		J	1/4W		R692	ERDS2TJ472	С	4.7K		J	1/4W
R626	ERDS2TJ472	C 4.7K	OHM	J	1/4W		R698	ERDS2TJ331	С	330	OHM	J	1/4W
R627	ERC14GJ106	S 10M	OHM	J	1/4W		R770	ERD25FJ332K	С	3.3K	OHM	j	1/4W
	ERD25FJ101K	C 100	OHM	J	1/4W		R771	ERDS2TJ272	С	2.7K	OHM	J	1/4W
	ERDS2TJ101		OHM	J	1/4W		R772	ERDS2TJ122	c	1.2K		Ĵ	1/4W
Dean	ERD25FJ101K	100	ОНМ	J	1/4W		R773	ERQ2CJP22OS	F	22	ОНМ	J	2W
	I	li .		_	1/4W		1		w			_	
	ERDS2TJ331	0 330	OHM	J			R801	ERF3AKR47		0.47		K	3W
R632	ERDS2TJ102	C 1K	OHM	J	1/4W		R802	ERC12ZGK335	s c	3.3M		K	1/2W
R633	ERDS2TJ104	C 100K	OHM	J	1/4W	Δ	R803	ERDS1FJ564	C	560K	OHM	J	1/2W
R634	ERDS2TJ391	C 390	OHM	J	1/4W	Δ	R804	ERF5ZJ101	W	100	OHM	J	5W
R635	ERDS2TJ104	C 100K	ОНМ	J	1/4W	Δ	R805	ERG3SJU330	м	33	ОНМ	U	3₩
R636	ERDS2TJ331		OHM	Ŭ	1/4W	太	R808	ERG3SJU473	м		OHM	ŭ	3W
		330				 			1.			_	
R637	ERDS2TJ102	1K	OHM	J	1/4W		R811	ERQ1CKPR33	F	0.33		K	1 W
R638	ERDS2TJ221	C 220	OHM	J	1/4W		R814	ERD75TAJ825	C	8.2M		J	3/4W
R639	ERDS2TJ331	C 330	OHM	J	1/4W	🕰	R815	ERW12PKR47	W	0.47	OHM	K	1/2W
R640	ERDS2TJ101	C 100	ОНМ	j	1/4W	Δ	R821	ERQ12HJ1R2	F	1.2	ОНМ	J	1/2W
		1				I	R824	ERD25FJ102K	c		OHM	Ū	1/4W
R642	ERDS2TJ152	C 1.5K	ОНМ	J	1/4W	A	R825	ERQ14AJ471	F		OHM	Ű	1/4W
		C 1.5K C 2.2K			1/4W	A	R826	ERQ12HKR82	F			K	1/2W
R643	ERDS2TJ222	C 1.5K	T 447 4 4	J	1/4W 1/4W		R830		F	0.82			-
R644	ERDS2TJ152	C 1.5K	UHM	J.	1/4W	<u>^^</u>	K830	ERQ2CJP4R7S	<u></u>	4.7	OHM	J	2W
R645	ERDS2TJ471	C 470	ОНМ	J	1/4W	Δ	R831	ERQ12HKR22	F	0.22	ОНМ	K	1/2W
		230	OHM	J	1/4W		R832	ERDS1FJ471	c		OHM	Ĵ	1/2W
R646	ERDS2TJ331	330				1 43			<u></u>				
R647	ERDS2TJ102	C 1K	OHM	J	1/4W	1	R860	ERDS1FJ2R2	C		OHM	J	1/2W
R648	ERDS2TJ221		OHM	Ų	1/4W	1	R861	ERDS1FJ2R2	C C		OHM	J	1/2W
R649	ERDS2TJ103	C 10K	OHM	J	1/4W		R862	ERDS1FJ1R2	С	1.2	OHM	Ų	1/2W
R650	ERDS2TJ103	C 10K	ОНМ	ď	1/4W		R863	ERDS1FJ272	c	2.7K	ОНМ	J	1/2W
R651	ERDS2TJ103		OHM	Ū	1/4W	1	R864	ERD25FJ223K	00000		OHM	Ū	1/4W
		200	OHM	Ŭ	1/4W		R865	ERDS2TJ223	F		OHM	ŭ	1/4W
R653	ERDS2TJ391	390					1	1	Ľ			-	
R655	ERDS2TJ472	C 4.7K		J	1/4W	ľ	R866	ERDS2TJ103	C	-	OHM	J	1/4W
R656	ERDS2TJ331	C 330	OHM	J	1/4W	1	R867	ERDS2TJ102		1K	OHM	J	1/4W
	1	1				ŀ	R870	ERF2AJ100	W	10	OHM	J	2W
R657	ERDS2TJ122	C 1.2K C 470	OHM	J	1/4W		R881	ERDS1FJ103	C	10K	OHM	J	1/2W
R659	ERDS2TJ471	C 470	OHM	J	1/4W	ΙĀ	R885	ERD25FJ102K	C	1K	OHM	J	1/4W
R660	ERD25FJ102K		OHM	Ū	1/4W	١	R886	ERDS2TJ472	c	4.7K		Ū	1/4W
	1	C 5.6K		J	1/4W			-11552104/2	[7.7K	- I	J	., -, -,
R661	ERDS2TJ562					A	D000	EDC36 1603	2.4	601			2W
R662	ERDS2TJ103	C 10K	OHM	J	1/4W	Δ	R888	ERG2SJ683	M		OHM	J	
			_			١,	R889	ERDS2TJ333	C		OHM	J	1/4W
R663	EVND4AAOOB13	1	В		IK OHM	_	R890	ERDS1FJ154	С	150K		J	1/2W
R664	ERDS2TJ751	C 750	OHM	J	1/4W		R891	ERDS1FJ474	c	470K	OHM	J	1/2W
R665	ERDS2TJ821	C 820	OHM	. U	1/4W	Ī	R1300	ERDS2TJ103	C		OHM	Ū	1/4W
R666	ERDS2TJ102	k 1K	OHM	Ü	1/4W	ĺ	R1301	ERDS2TJ153	CC		OHM	Ū	1/4W
R667	ERDS2TJ821	1	OHM	J	1/4W			ERDS2TJ682	c	6.8K		Ĵ	1/4W
	EDDGGT 1001	0000	004		4 / 253		D4000	EDDEOT 1470		ATTIO	064		4 / 414
R668	ERDS2TJ681	1	MHO	Ų	1/4W	1	R1303	ERDS2TJ473	C C		OHM	J	1/4W
R669	ERD25FJ472K	C 4.7K	OHM	J	1/4W	l				22K	OHM	J	1/4W
R670	EVND1AAOOB54	CONTROL	В	50	OK OHM	l		ERDS2TJ101	C	100	OHM	ڼ	1/4W
R671	ERDS2TJ332	С 3.3К	OHM	J	1/4W			EROS2CKF3000	М	300	OHM	Ė	1/4W
R672	ERD25FJ561K	1	OHM	J	1/4W		R1307	ERDS2TJ101	c		ОНМ	Ú	1/4W
			01.55		4 / 452		04000	EDDCOT 1404		400	OLies.		4/44
R673	ERDS2TJ561	C 560 C 4.7K C 6.8K C 100	OHM	J .i	1/4W 1/4W			ERDS2TJ121 ERDS2TJ471	C C		OHM	ل ل	1/4W 1/4W
R674	ERDS2TJ472	0 4.7K		Ų		1			5				
R675	ERDS2TJ682	C 6.8K		J	1/4W			ERDS2TJ473	C C		OHM	J	1/4W
R676	ERDS2TJ101		OHM	J	1/4W	l		ERDS2TJ223			OHM	J	1/4W
R677	ERDS2TJ101	C 100	OHM	J	1/4W		R1312	ERDS2TJ102	С	ΉK	OHM	J	1/4W
R678	ERDS2TJ101	C 100	ОНМ	J	1/4W	[R1313	ERDS2TJ102	С	1K	ОНМ	J	1/4W
	L .	100	OHM	J	1/4W	l		ERDS2TJ473	č		OHM	J	1/4W
R679	ERDS2TJ103	100				l	1		č				1/4W
R680	ERDS2TJ105	L IM	OHM	J	1/4W	l	1	ERDS2TJ223	<u>.</u>		OHM	J	
R681	ERDS2TJ472	C 100 C 10K C 1M C 4.7K C 180		U.	1/4W		1	EVND4AAOOB13	1_	TROL	B. O⊔M	. 1	1K OHM 1/4W
R684	ERDS2TJ181	180	OHM	J	1/4W		K131/	ERD25FJ222K	С	2.2K		Ų	1/ → ₩
R685	ERDS2TJ122		OHM		1/4W		1	ERDS2TJ331	С		ОНМ	J	1/4W
R686	ERDS2TJ472	C 4.7K	OHM	J	1/4W		R1319	ERDS2TJ333	C	33K	OHM	J	1/4W

Ref.No.	Part No.		Descrip	tior	1	Ref.No.	Part No.		Descri	ption	
R1320	ERDS2TJ222	c	2.2K DHM	J	1/4W	R1646	ERDS2TJ103	1 -	MHO	J	1/4W
R1321	ERDS2TJ391	C	390 OHM	J	1/4W	R1647	ERDS2TJ222		MHO	J	1/4W
	ERDS2TJ121	c	120 DHM	J	1/4W	R1653	ERDS2TJ272	C 2.7K	MHO	Ü	1/4W
		F	1K OHM	J	1/4W		ERDS2TJ822		MHO	Ū	1/4W
	ERDS2TJ102	00000	1K OHM		1/4W	F	ERDS2TU393		OHM	Ŭ	1/4W
R1324	ERDS2TJ102	C	1K UHM	J	1/4W	K1661	EKU5210393	39	Univi	U	1/48
R1325	ERDS2TJ152	c	1.5K OHM	J	1/4W		ERDS2TJ223		MHO	J	1/4
R1326	ERD25FJ102K	C	1K OHM	J	1/4W	R1663	ERDS2TJ102	C 11	MHO:	J	1/4W
01327	ERDS2TJ102	lc.	1K OHM	J	1/4W	R1664	ERDS2TJ561	C 18	MHO (J	1/4
04222	ERDS2TJ223	CC	22K OHM	Ū	1/4W	R1668	ERDS2TJ221		MHO	J	1/4
R1332	ERDS2TJ473	c	47K OHM	Ų	1/4W		ERDS2TJ333	1	MHO	J	1/4
					4.7414	24070	EDDGGT 1004		. OLIM		1/4
	ERDS2TJ221 ERDS2TJ222	C	220 OHM 2.2K OHM	ل ال	1/4W 1/4W		ERDS2TJ221 ERDS2TJ472		MHO C	J J	1/4
				-	1/4W		ERDS2TJ183		COHM	Ű	1/4
	ERDS2TJ121	c	120 DHM	J							1/4
R1337	ERDS2TJ103	C	10K OHM	J	1/4W		ERDS2TJ563		(OHM	J	
R1339	ERDS2TJ102	C	1K OHM	J	1/4W	R1674	ERDS2TJ152	C 1.5	COHM	J	1/4
R1341	ERDS2TJ101	c	100 OHM	J	1/4W	R1675	ERDS2TJ121	C 120	MHO	ل .	1/41
N 194		CC	1K DHM	J	1/4W		ERDS2TJ103		COHM	ŭ	1/41
	ERDS2TJ102	ř								J	1/4
	ERDS2TJ102	C	1K OHM	J	1/4W		ERDS2TJ102		MHO	-	
	ERDS2TJ152	C	1.5K OHM	J	1/4W		ERDS2TJ101	,	MHO C	J	1/4
	ERDS2TJ152	C	1.5K OHM	J	1/4W	R3302	ERDS2TJ101	C 100	MHO C	J	1/41
			0.04.015		# / ALU	D2224	ERDS2TJ103	40		J	1/4
	ERDS2TJ332	C	3.3K OHM	J	1/4W				C OHM	-	•
R1357	ERDS2TJ471	C	470 OHM	J	1/4W		ERDS2TJ102	1-	C OHM	U	1/4
R1358	ERDS2TJ681	CC	680 OHM	J	1/4W	R3307	ERDS2TJ101	jC 100	MHO C	J	1/41
R1359		c	180 OHM	Ū	1/4W	R3308	ERDS2TJ563		C OHM	J	1/4
R1361		C	2.2K OHM	J	1/4W		ERDS2TJ102	C 11	C OHM	Ū	1/41
.,				-	•						-
R1362		0000	270 OHM	J	1/4W	1 1	ERDS2TJ103	1-	C OHM	J	1/4
R1367	ERDS2TJ271	C	270 OHM	J	1/4W	R3316	ERDS2TJ102		COHM	J	1/4
R1372	I	c	4.7K OHM	J	1/4W	R3317	EVTF4CA00B24	CONTROL	В	20	K OH
R1373		Ċ	330K DHM	Ĵ	1/4W		ERDS2TJ102	1	C OHM	J	1/4
R1374		c	100K DHM	J	1/4W	1 1	ERD25FJ223K	1	COHM	Ū	1/4
			خديد مورو		4 / 411		EDDCOT 1400	h	/ CI.		4 / 4
R1375	ERDS2TJ102	0000	1K OHM	J	1/4W	1 1 -	ERDS2TJ103		< OHM	J	1/41
R1376	ERDS2TJ333	C	33K OHM	J	1/4W		ERDS2TJ101	pc 100	MHO C	U	1/41
R1377		C	10K OHM	J	1/4W	R3322	ERDS2TJ101	JC 100	MHO C	J.	1/4
R1378		c	10K OHM	J	1/4W	R3323	ERDS2TJ101	C 100	MHO C	J	1/4
R1380			COMBINATION	-	.,		ERDS2TJ101		MHO C	J	1/4
. . .	EVDE45100:	-	COMBINATION	k I		R3325	ERDS2TJ101	100	OHM	J.	1/4
R1381		RR		-	4 / 40			2 10		-	
R1382		C	1K OHM	J	1/4W	R3326	ERDS2TJ101	100	MHO C		1/4
R1383	ERDS2TJ682	С	6.8K OHM	J	1/4W		ERDS2TJ472	C 4.7	C OHM	J	1/4
R1384		c	1K OHM	J	1/4W	R3329	ERDS2TJ101	C 100 C 100 C 4.7I C 100	MHO C	J	1/4
R1386		c	1K OHM	Ĵ	1/4W	R3330	ERDS2TJ101	C 100	MHO C	J	1/4
	EDDOES HOOK		AV OUR	. 1	1/4W	B3330	ERDS2TJ682	c 6.8	K OHM	J	1/4
R1387	ERD25FJ102K	C	1K OHM		1/4W			ş			1/4
R1388	ERDS2TJ102	С	1K OHM	J	1/4W		ERDS2TJ153		< OHM		
R1389	ERDS2TJ103	C	10K OHM	J	1/4W		ERDS2TJ101	1 '	MHO C		1/4
R1392	ERDS2TJ223	C	22K OHM	J	1/4W	R3335	ERDS2TJ153		< OHM	J	1/4
	EXBF5E472J	RR	COMBINATION	N		1 1	ERDS2TJ562	C 5.6	K OHM	J	1/4
D	EDDCOT-1404		100 OHM	J	1/4W	D3330	EVTF4CAOOB14	CONTROL	В	10	K OH
K1395	ERDS2TJ101	۲		-	1/4W	1 1	ERDS2TJ562	L	K OHM	-	1/4
R1398	ERDS2TJ103	Ľ	10K DHM	J	* .						-
R1399	ERD25FJ331K	c	330 OHM	J	1/4W		EVTF4CAOOB53	f			K OH
R1601	ERDS2TJ104	C	100K DHM	J	1/4W		ERDS2TJ122	1	K OHM		1/4
R1615	ERDS2TJ222	c	2.2K OHM	J	1/4W	R3346	ERDS2TJ223	C 221	K OHM	J	1/4
L	EDDEOT 1400	L	1K OHM	U	1/4W	D2247	EVTF4CAOOB15	CONTROL	В	100	K OH
	ERDS2TJ102 ERDS2TJ391	C	390 OHM	J	1/4W		ERDS2TJ332		C OHM		
K1619	EKUSZIUSSI	Ç		-	• .	1 1					K OH
	ERDS2TJ101	C	100 DHM	J	1/4W		EVTF4CAOOB53				
R1621	ERDS2TJ222 ERDS2TJ681	C	2.2K OHM 680 OHM	J	1/4W 1/4W		EVTF4CAOOB15 ERDS2TJ333	1	B K OHM		K OHI 1/4
K 1022	LKD3210001	ſ	000 Dia4	•	17 - 44	[]		-	
R1626	ERDS2TJ104	c	100K DHM	J	1/4W		EVTF4CAOOB33			_	K OH
	ERDS2TJ101		100 DHM	J	1/4W	R3355	ERDS2TJ153	C 15	C OHM	J	1/4
	ERDS2TJ273	Č	27K OHM	J	1/4W		ERDS2TJ103		C OHM	Ū	1/4
D1040	ERDS2TJ472	000	4.7K OHM	J	1/4W		ERDS2TJ472	C 4.7	COHM	-	1/4
	ERDS2TU472	č	4.7K OHM	J	1/4W		ERDS2TJ153		COHM		1/4
K1643	EKU32104/2	٢	7.78 0014	J	1/ -7#			131	. 3, ,,,,	•	.,
1		С	10K DHM	J	1/4W	D2261	ERDS2TJ822	h 0 31	COLM	,	1/4
R1644	ERDS2TJ103	~	TOK UNIV	•	1/	R3301	LKD3210022	C 8.2	< OHM	J	17 41

Ref.No.	Part No.	Descrip	tion	Ref.No.	Part No.	Descri	ption
	ERDS2TJ684	C 680K OHM	J 1/4W		ERDS2TJ103	C 10K OHM	J 1/4W
R3364	ERDS2TJ684	C 680K OHM	J 1/4W	R4301	ERD25FJ750K	C 75 OHM	. U 1/4W
R3365	ERDS2TJ562	C 5.6K OHM	J 1/4W	R4302	ERD25FJ750K	C 75 OHM	J 1/4W
R3366	EVTF4CAOOB15	CONTROL B	100K DHM	R4303	ERD25FJ750K	C 75 OHM	J 1/4W
	ERDS2TJ684	C 680K OHM	J 1/4W	1 1	ERD25FJ750K	C 75 OHM	
R3374	ERDS2TJ103	C 10K DHM	J 1/4W	R4305	ERD25FJ750K	C 75 OHM	J 1/4W
	EROS2CKF1801	M 1.8K OHM	F. 1/4W	1	ERD25FJ750K	C 75 OHM	
	ERDS2TJ222	C 2.2K OHM	J 1/4W		ERD25FJ151K	C 150 OHM	J 1/4W
		l .			ERD25FJ151K		
	ERDS2TJ101 EVTF4CAOOB25	C 100 OHM CONTROL B	J 1/4W 200K DHM	1	ERD25FJ151K	C 150 OHM C 150 OHM	J 1/4W J 1/4W
	ERDS2TJ101	C 100 DHM	J 1/4W	R4311	ERDS2TJ221	C 220 DHM	1 4/400
7100-	Jan 1		J 1/4W	1	1		J .1/4W
	ERDS2TJ101				ERDS2TJ563	C 56K OHM C 100 OHM	
	ERDS2TJ102	C 1K OHM	J 1/4W		ERDS2TJ101		J -1/4W
R3389	ERDS2TJ101	C 100. DHM	J 1/4W	1 1	ERDS2TJ103	C 10K DHM	J 1/4W
R3390	ERDS2TJ332	с з.зконм	J 1/4W	R4315	ERDS2TJ103	C 10K DHM	J 1/4W
R3393	EVTF4CAOOB14	CONTROL B	10K OHM	R4316	ERDS2TJ562	C 5.6K OHM	J 1/4W
R3394	ERDS2TJ102	C 1K OHM	J 1/4W	R4317	ERDS2TJ273	C 27K OHM	U 1/4W
	ERDS2TJ222	C 2.2K OHM	J 1/4W		ERDS2TJ471	C 470 OHM	J 1/4W
	ERD25FJ222K	C 2.2K OHM	J 1/4W		ERDS2TJ561	C 560 DHM	J 1/4W
r	ERQ1CJP1RO	F 1 OHM	J 1W	1	ERDS2TJ682	C 6.8K OHM	
R3397	ERGICOPIRO				LND3210002		•
R3398	ERDS2TJ472	C 4.7K OHM	J 1/4W		ERD25FJ750K	C 75 OHM	J 1/4W
R3399	ERDS2TJ222	C 2.2K OHM C 12K OHM	J 1/4W	R4327	ERDS2TJ102	C 1K OHM	J 1/4W
		C 12K DHM	J 1/4W		ERDS2TJ104	C 100K DHM	J 1/4W
P	ERDS2TJ473	C 47K OHM	J 1/4W	1 1	ERDS2TJ101	C 100 OHM	J 1/4W
	ERDS1FJ100	C 10 OHM	J 1/2W		ERDS2TJ101	C 100 OHM	J 1/4W
R3409	ERDS2TJ153	C 15K OHM	J 1/4W	R4334	ERDS2TJ471	C 470 DHM	J 1/4W
D3440	ERDS2TJ223	C 22K OHM	J 1/4W	1	ERDS2TJ473	C 47K OHM	J 1/4W
		C 6.8K OHM	J 1/4W			-	10K DHM
R3411					EVJO2WF25B14		
R3414		C 10K DHM	J 1/4W		ERDS2TJ392	C 3.9K OHM	J 1/4W
R3415	ERDS2TJ562	С 5.6К ОНМ	J - 1/4W	R5109	ERDS2TJ221	C 220 OHM	J 1/4W
R3416	ERDS2TJ103	C 10K 0HM	J 1/4W	R5110	ERDS2TJ102	C 1K OHM	J 1/4W
R3417	ERDS2TJ153	C 15K OHM	J 1/4W		EVJ02WF25B14	CONTROL B	10K DHM
R3420		C 4.7K OHM	J 1/4W		ERDS2TJ102	C 1K OHM	J 1/4W
R3420	ERDS2TJ471	C 470 OHM	J 1/4W		ERDS2TJ221	C 220 DHM	J 1/4W
R3421		C 470 OHM	J 1/4W		ERDS2TJ472	C 4.7K DHM	J 1/4W
R3423	ERDS2TJ471	C 470 DHM	J 1/4W	R5115	EVJ02WF25B14	CONTROL B	10K DHM
-		C 4.7K DHM C 4.7K DHM C 4.7K DHM	J 1/4W		ERDS2TJ103	C 10K DHM	J 1/4W
R3424		C 4.7% OUT					
R3425	ERDS2TJ472	C 4.7K OHM	,		ERDS2TJ221	C 220 OHM	J 1/4W
R3426		C 10K OHM	J 1/4W	1 1	ERDS2TJ153	C 15K OHM	J 1/4W
R3427	ERDS2TJ561	C 560 OHM	J 1/4W	R5119	EVJO2WF25B14	CONTROL B	10K OHM
R3428		с ток онм	J 1/4W		ERDS2TJ152	C 1.5K OHM	J 1/4W
R3430	ERDS2TJ562	C 5.6K OHM	J 1/4W	R5121	ERDS2TJ221	C 220 DHM	J 1/4W
R3431		C 1.8K OHM	J 1/4W	R5122	ERDS2TJ472	C 4.7K OHM	J 1/4W
R3432		C 1.8K OHM C 15K OHM	J 1/4W		EVJ02WF25B14	CONTROL B	10K OHM
	ERDS2TJ222	C 2.2K OHM	J 1/4W		ERDS2TJ822	C 8.2K DHM	J 1/4W
R3437	ERDS2TJ222	C 2.2K OHM	J 1/4W	R5125	ERDS2TJ221	C 220 DHM	J 1/4W
	ERDS2TJ822	C 8.2K OHM	J 1/4W	E 1	ERDS2TJ102	C 1K OHM	J 1/4W
		C 3.3K OHM	J 1/4W		EVJ02WF25B14	CONTROL B	10K OHM
	ERDS2TJ332	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				l .	
	ERDS2TJ222	C 2.2K OHM	J 1/4W		ERDS2TJ101	C 100 OHM	J 1/4W
	ERDS2TJ222	C 2.2K OHM	J 1/4W	R5129	ERDS2TJ221	C 220 DHM	J 1/4W
R3452	ERDS2TJ124	C 120K OHM	J 1/4W		1	[_
R3499	ERDS2TJ184	C 180K OHM	J 1/4W	R5130	ERDS2TJ102	C 1K OHM	J 1/4W
	ERDS2TJ102	C 1K OHM	J 1/4W		ERDS2TJ102	C 1K OHM	J 1/4W
	ERDS2TJ104	C 1K DHM C 100K DHM	J 1/4W		EVJ02WF25B14	CONTROL B	10K OHM
	ERDS2TJ103	C 10K OHM	J 1/4W	1 1	ERDS2TJ332	C 3.3K OHM	J 1/4W
R4203	ERDS2TJ222	l .	J 1/4W	1 1	ERDS210332 ERDS2TJ683	C 68K OHM	J 1/4W
		C 47V OUM	. 4/AW	DE405	EV.IOOMEDEDE 1	CONTROL	EOV OUM
	ERDS2TJ473	C 47K OHM	J 1/4W		EVJ02WF25B54	CONTROL B	50K OHM
	ERDS2TJ103	C 10K OHM	J 1/4W		ERDS2TJ101	C 100 OHM	J 1/4W
R4207	ERDS2TJ473	C 47K OHM	J 1/4W		ERDS2TJ102	C 1K OHM C 1K OHM	J 1/4W
R4208	ERDS2TJ102	C 1K OHM	J 1/4W	R5138	ERDS2TJ102	C 1K OHM	J 1/4W
R4209	ERDS2TJ104	C 100K DHM	J 1/4W	R5145	ERDS2TJ101	C 100 OHM	J 1/4W
	I	1		I	i	1	
R4210	ERDS2TJ102 ERDS2TJ104	C 1K DHM C 100K DHM	J 1/4W		ERDS2TJ153 ERDS2TJ153	C 15K OHM C 15K OHM	J 1/4W J 1/4W

Ref.No.	Part No.		Descrip	tion		Ref.No.	Part No.	Descr	iptio	n .
R5148	ERDS2TJ153	c	15K OHM	J	1/4W	R5338	ERDS2TJ472	C 4.7K OHM	J	1/4W
	ERDS2TJ222	C	7 7 1 1 1 1 1	Ū	1/4W	R5339	ERDS2TJ472	C 4.7K OHM	ال	1/4W
,,,,,,,	ERDS2TJ392	000		J	1/4W		ERDS2TJ682	C 6.8K OHM		1/4W
		Ľ		Ú	1/4W		ERDS2TJ103	C 10K DHM		1/4W
	ERDS2TJ682			-			ERDS2TJ822	C 4.7K OHM C 4.7K OHM C 6.8K OHM C 10K OHM C 8.2K OHM		1/4W
R5153	ERD25FJ223K	С	22K OHM	U,	1/4W	R5342	EKU5210822	6.2K UHW	U	1/4m
R5154	ERD25FJ102K	c	1K OHM	J	1/4W	R5343	ERDS2TJ103	С 10К ОНМ	Ü	1/4W
	ERDS2TJ472	Ğ		ل	1/4W	R5344	ERDS2TJ473	C 47K OHM	J	1/4W
	ERDS2TJ472	5	4.7K OHM	Ū	1/4W		ERDS2TJ563	C 56K OHM	ن ن	1/4W
		Ľ			1/4W		ERDS2TJ563	C 47K OHM C 56K OHM C 56K OHM		1/4W
R5203	ERDS2TJ472 ERDS2TJ104	00000		يل ل	1/4W		ERDS2TJ472	C 4.7K OHM		1/4W
R3207	EKD3210104		10010 (01.4.1.)	•	.,			·		
R5208	ERDS2TJ104	000	100K DHM	J	1/4W		ERDS2TJ101	C 100 DHM C 10K DHM C 390 DHM C 390 DHM		1/4W
R5209	ERDS2TJ104	C	100K DHM	J	1/4W	B	ERD25FJ103K	C 10K DHM		1/4W
R5210	ERDS2TJ682	lc	6.8K OHM	J	1/4W	R5356	ERDS2TJ391	C 390 DHW	J	1/4W
	ERDS2TJ562	C	5.6K OHM	J	1/4W	R5358	ERDS2TJ391	C 390 OHM	ال	1/4W
	ERDS2TJ102	c	1K OHM	J	1/4W	R5360	ERDS2TJ391	C 390 DHW	J	1/4W
[- [4014 01 114		4 / 454
,	ERDS2TJ104	c	100K DHM	J	1/4W		ERDS2TJ103	C 10K OHM	J	1/4W 2K DHM
	ERDS2TJ221	C	220 OHM	J	1/4W		EVND4AAOOB23	CONTROL B		
R5215	ERDS2TJ102	CC	1K OHM	IJ	1/4W		ERDS2TJ103	C 10K DHM		1/4W
R5216	ERDS2TJ101	C	100 DHM	J	1/4W		ERDS2TJ101	C 100 DHM		1/4W
R5217		C	100K DHM	J	1/4W	R5365	ERDS2TJ682	C 6.8K OHM	٠	1/4W
					. /		EDDGOT 1000	6 64 617		1/4W
R5218	ERDS2TJ103	C	10K OHM	Ų	1/4W	P	ERDS2TJ682 ERD25FJ472K	C 6.8K OHM C 4.7K OHM		1/4W
R5219		c	100K DHM	ل	1/4W		1			1/4W
R5220		c	10K DHM	J	1/4W		ERDS2TJ124	C 120K DHM C 120K DHM		
R5221	ERDS2TJ104	C	100K OHM	J.	1/4W		ERDS2TJ124			1/4W
R5222		c	100K DHM	J,	1/4W	R5370	ERDS2TJ101	C 100 DHM	J	1/4W
					4 / 452	R5371	ERDS2TJ682	C 6.8K OHM	J	1/4W
R5223		C ·	5.6K OHM	J	1/4W					1/4W
R5224		С		, J	1/4W	F	ERDS2TJ472	C 4.7K OHM	,	
R5225		0000	39K OHM	J	1/4W		ERDS2TJ472	C 4.7K OHM		1/4W
R5230	ERDS1FJ101	С	100 DHM	J	1/2W		ERDS2TJ682	C 6.8K OHM		1/4W
R5301		C	220 OHM	J	1/4W	R5375	ERDS2TJ103	C 10K DHM	IJ	1/4W
1			004 0184		4 / 41/	R5376	ERDS2TJ103	C 10K DHM	J	1/4W
R5302		C	33K OHM	J	. 1/4W			1		2K OHM
R5303		C	33K OHM	J	1/4W	R5377	EVND4AAOOB23			1/4W
R5304		c	3.3K OHM		1/4W	R5378	ERDS2TJ391	C 390 DHM		
R5305		C	2.2K OHM	J	1/4W	R5379	ERDS2TJ391	C 390 OHM		1/4W
R5306	ERDS2TJ561	c	560 OHM	J	1/4W	R5380	ERDS2TJ561	C 560 DHM	Ų	1/4W
	EDDCOT HOO		1K OHM	J.	1/4W	R5381	ERDS2TJ221	C 220 OHM	ı J	1/4W
R5307		Ľ		-	1/4W		ERDS2TJ124	C 120K DHM		1/4W
R5308	1	Ľ	220 OHM	J			ERDS2TJ124			1/4W
R5309		C	1K OHM	Ų	1/4W					1/4W
R5310		00000	330 OHW	J	1/4W		ERDS2TJ101	C 100 DHM		• •
R5311	ERDS2TJ331	С	330 OHM	J	-1/4W	R5385	ERDS2TJ472	C 4.7K OHN	IJ	1/4W
	EDDCOT 1224	С	330 OHM	J	1/4W	25386	ERDS2TJ222	C 2.2K DHN	ı J	1/4W
R5312	ERDS2TJ331				1/4W 1/4W		ERDS2TJ682	C 6.8K OHM		1/4W
R5313	ERDS2TJ153	-	15K OHM	Ú						1/4W
R5314	ERDS2TJ153	000	15K OHM	ن	1/4W	1 1	ERDS2TJ152	C 1.5K OHN		1/4W
	ERDS2TJ153	C	15K OHM	J	1/4W	1 1	ERDS2TJ682	C 6.8K OHN		
R5316	ERDS2TJ333	c	33K OHM	J	1/4W	R5390	ERDS2TJ682	C 6.8K OHN	ı J	1/4W
1	EDDEOT 1000	<u> </u>	33K OHM	J	1/4W	05301	ERDS2TJ101	C 100 DHN	i J	1/4W
R5317	ERDS2TJ333	C		J.	1/4W		ERDS2TJ103	C 10K OHN		1/4W
R5318	ERDS2TJ333	C C	33K OHM				ERDS2TJ103	C 10K OHN		1/4W
	ERDS2TJ122	C	1.2K OHM	J	1/4W	1 1		L IOK UHN		1/4W
	ERDS2TJ122	С	1.2K OHM	J	1/4W	B 1	ERDS2TJ102	C 100 OHN C 10K OHN C 10K OHN C 1K OHN C 100 OHN		
R5321	ERDS2TJ122	C	1.2K OHM	J	1/4W	R5395	ERDS2TJ101	C 100 OHN	ij	1/4W
	EDDEOT 1400	<u>_</u>	41/ OHRA	· U	1/4W	DE 306	ERDS2TJ333	с ззкони	ı J	1/4W
	ERDS2TJ102	O O	1K OHM 100 OHM	J	1/4W	1	ERDS2TJ563	C 56K OHN		
	ERDS2TJ101	\sqsubset		Ü	1/4W		ERDS2TJ563	C 56K OHN C 56K OHN C 33K OHN		1/4W
	ERDS2TJ101	C	100 OHM				ERDS2TJ333	C 33K OHN		
R5325	ERDS2TJ101	C	100 DHM	ل ل	1/4W 1/4W		ERDS2TU333	C 100 OH		
R5328	ERDS2TJ102	۲	1K OHM	J	1/ →₩		LAUSZIOIOI	100 511		., ¬==
P5330	ERDS2TJ101	С	100 OHM	J	1/4W	R5404	ERDS2TJ391	C 390 OHM	ı J	1/4W
	ERDS2TJ222	Č	2.2K OHM	J	1/4W	1 1	ERDS2TJ151	C 150 OHM		1/4W
		5	100 OHM	Ĵ	1/4W	1 1	ERDS2TJ124	C 120K OHN		1/4W
	ERDS2TJ101	000		J	1/4W		ERDS2TJ152	C 150 OHN C 120K OHN C 1.5K OHN		1/4W
	ERDS2TJ103	C	10K OHM 12K OHM	J	1/4W	1 1	ERDS2TJ102	C 1K OHN		1/4W
K5334	ERDS2TJ123	۲	IZR UNM	J	1/ -7#	["]		1		
R5335	ERDS2TJ102	c	1K OHM	J	1/4W	R5412	ERDS2TJ152	C 1.5K OHN	ı J	1/4W
R5336	ERDS2TJ101	00	100 DHM	Ū	1/4W	R5413	ERDS2TJ392	C 3.9K OHM	1 <u>J</u>	1/4W
F.5000										

Ref.No.	Part No.	Descri		Ref.No.	<u> </u>	<u> </u>	scription	
F	ERDS2TJ221	C 220 DHM C 5.6K DHM C 3.3K DHM C 5.6K DHM C 100 DHM	J 1/4W			M 750 D		1/4W
	ERDS2TJ562	C 5.6K OHM	J 1/4W		+	М 3.65К О		1/4W
R5418	ERDS2TJ332	C 3.3K OHM	U 1/4W	R5611	ERD25FJ331K	C 330 D	HM J	1/4W
R5419	ERDS2TJ562	C 5.6K OHM	J 1/4W	R5612	ERDS2TJ103	C 10K D	HM J	1/4W
	ERDS2TJ101	C 100 DHM	J 1/4W	R5613	ERDS2TJ103	C 10K 0	HM J	1/4W
R5424	ERDS2TJ102	C 1K OHM	J 1/4W	R5615	ERDS2TJ223	C 22K 0	HM J	1/4W
	ERDS2TJ681	C 1K DHM C 680 DHM C 15K DHM C 10K DHM	J 1/4W	R5616	ERDS2TJ473	C 22K 0 C 47K 0 C 56K 0 C 33K 0	HM J	1/4W
	ERDS2TJ153	C 15K OHM	J 1/4W		ERDS2TJ563	C 56K 0		1/4W
		C 10K DHM	J 1/4W		ERDS2TJ333	C 33K 0		1/4W
	ERDS2TJ103 ERDS2TJ472	C 4.7K DHM	J 1/4W	R5619	ERDS2TJ223	C 22K 0		1/4W
R5429	ERDS2TJ334	C 330K OHM	J 1/4W	R5620	ERDS2TJ472	C 4.7K 0	HM J	1/4W
	ERDS2TJ682	C 330K OHM C 6.8K OHM C 1K OHM C 10K OHM	J 1/4W	R5621	ERDS2TJ223	C 22K 0		1/4W
		6.8K OFW			_	C 4.7K 0		1/4W
	ERDS2TJ102	C 1K DHM			ERDS2TJ472	1		
R5432	ERDS2TJ103		J 1/4W	R5624	ERDS2TJ821	C 820 0		1/4W
R5433	ERDS2TJ562	C 5.6K OHM	J 1/4W	R5625	EROS2CKF2431	M 2.43K 0	HM F	1/4W
R5434	ERDS2TJ103	C 10K DHM	J 1/4W	R5626	EROS2CKF8200	1		1/4W
R5435	ERDS2TJ563	C 56K OHM	J 1/4W	R5627	EROS2CKF1741	M 1.74K 0	HM F	1/4W
	ERDS2TJ563	C 56K OHM	J 1/4W	R5628	EROS2CKF8200	M 820 0	HM F	1/4W
	ERDS2TJ682	C 6.8K OHM	J 1/4W	R5632	ERDS2TJ331	C 330 D	HM J	1/4W
F	ERDS2TJ103	C 10K DHM	U 1/4W	R5636	ERDS2TJ472	C 4.7K 0		1/4W
75439	LND3210103							•
R5442	ERDS2TJ103	C 10K DHM	J 1/4W	R5637	ERDS2TJ331	C 330 C		1/4W
R5443	ERDS2TJ562	C 5.6K OHM	J 1/4W	R5639	ERDS2TJ101	C 100 0	HM J	1/4W
R5444	EVND4AAOOB24	CONTROL B	20K OHM	R5640	ERDS2TJ223	C 22K 0	HM J	1/4W
R5445	ERDS2TJ822	C 8.2K OHM	J 1/4W	R5641	ERDS2TJ272	C 2.7K 0		1/4W
R5446	1	C 39K OHM	J 1/4W	R5643	ERDS2TJ102	C 1K O		1/4W
R5447	ERDS2TJ473	C 47K OHM	J 1/4W	R5644	ERDS2TJ151	C 150 C	нм Ј	1/4W
		000 004		1	ERDS2TJ151	C 150 0		1/4W
1	ERDS2TJ391	C 390 DHM C 10K OHM C 18K OHM		1 1	1	150 0		
R5451		C 10K OHM	J 1/4W	R5646	ERDS2TJ151	C 150 0		1/4W
R5452	ERDS2TJ183	1	J 1/4W	R5647	ERDS2TJ271	C 270 0		1/4W
R5453	ERDS2TJ563	C 56K OHM	J 1/4W	R5648	ERDS2TJ221	C 220 C	HM J	1/4W
R5454	ERDS2TJ473	C 47K OHM	J 1/4W	R5649	ERDS2TJ271	C 270 0	HM J	1/4W
R5455	EVND4AA00B54	CONTROL B	50K OHM	R5650	ERDS2TJ221	C 220 D	HM J	1/4W
R5456		C 560 OHM	J 1/4W	R5651	ERDS2TJ271	C 270 0	HM J	1/4W
R5457		C 390 OHM	J 1/4W	R5652	ERDS2TJ221	C 220 0	HM J	1/4W
R5458		C 330 OHM	J 1/2W	R5653	ERDS2TJ562	C 5.6K 0		1/4W
R5459	ERDS2TJ222	C 2.2K OHM	J 1/4W	R5654	ERDS1FJ151	C 150 0	HM J	1/2W
R5461	ERDS2TJ681	C 680 OHM	J 1/4W	R5751	ERDS2TJ393			1/4W
		C 1.5K OHM	J 1/4W	R5752	ERDS2TJ682	C 39K 0		1/4W
R5463	4			4 1 "	1 -			
R5464 R5465	ERD\$2TJ472 ERD25FJ102K	C 4.7K OHM	J 1/4W J 1/4W	R5753	ERDS2TJ471 ERDS2TJ182	C 470 0		1/4W 1/4W
			1 4/45	DE 255	EDDCOT HOS			a /au
	ERDS2TJ331	C 330 OHM	J 1/4W		ERDS2TJ102	C 1K D		1/4W
	ERDS2TJ682	C 6.8K OHM	J 1/4W	1 1	ERDS2TJ222	C 2.2K 0		1/4W
R5475		C 2.2K OHM	J 1/4W	3 1	ERDS2TJ153	C 15K 0		1/4W
R5476		C 10K OHM	J 1/4W	R5758	ERDS2TJ154	C 150K 0		1/4W
R5477	ERDS2TJ472	C 4.7K OHM	J 1/4W	R5759	ERDS2TJ124	C 120K 0	HM J	1/4W
R5480	ERDS2TJ272	C 2.7K OHM	J 1/4W	R5760	ERDS2TJ154	C 150K 0	HM J	1/4W
R5481	ERDS2TJ682	C 6.8K OHM	J 1/4W	R5761	ERDS2TJ473	C 47K 0	HM J	1/4W
	ERDS2TJ122	C 1.2K OHM	J 1/4W	1 1	ERDS2TJ102	C 1K 0		1/4W
R5487	1	C 820 OHM	J 1/4W	1 1	ERDS2TJ103	C 10K 0		1/4W
	ERDS2TJ122	C 1.2K OHM	J 1/4W		EVND1AAOOB24	CONTROL B		K OHM
DE 401	EDDCOTHEOD	C 1.2K OHM	J 1/4W	DETER	ERDS2TJ472	C 4.7K 0	HM J	1/4W
R5491	All controls and the second se				ERDS2TJ272	I.		1/4W
	ERDS2TJ101	C 100 DHM	J 1/4W		1.	C 2.7K D		
1	ERDS2TJ105	C 1M OHM	J 1/4W		ERDS2TJ473	C 47K 0		1/4W
R5520 R5601		C 22K DHM C 330 DHM	J 1/4W J 1/4W	1 -	ERDS2TJ563 ERDS2TJ393	C 56K 0		1/4W 1/4W
10001	LADEST USS IN		·					
	ERDS2TJ103	C 10K OHM	J 1/4W	1 1	ERDS2TJ182	C 1.8K 0		1/4W
	ERDS2TJ103	C 10K OHM	J 1/4W		ERDS2TJ332	C 3.3K D		1/4W
	EROS2CKF7500		F 1/4W		ERDS2TJ473	C 47K D		1/4W
R5605	EROS2CKF3651	M 3.65K OHM	F 1/4W	R5776	ERDS2TJ563	C 56K 0		1/4W
	ERD25FJ331K	C 330 OHM	J 1/4W	R5777	ERDS2TJ153	C 15K 0	HM J	1/4W
L	ERDS2TJ103	C 10K 0HM	J 1/4W	05770	ERDS2TJ682	C 6.8K D	HM J	1/4W
R5607	EKDSZIOIOS	0 101 01111	U 1/ ¬₩	1 12//0	ENDUZIOUZ	0.00.0	1141	1/ - "

	Ref.No.	Part No.	Description		Ref.No.	Part No.	Description
	R5780	ERDS2TJ393	C 39K OHM J 1/4W C 39K OHM J 1/4W		B6	TJS2A8350	6P CONNECTOR
		ERDS2TJ393	C 39K OHM J 1/4W		B7	TJS2A8390	10P CONNECTOR
	R5782	ERDS2TJ393	C 39K DHM J 1/4W		B8	TJS118590	2P CONNECTOR
		ERDS2TJ104	C 100K DHM J 1/4W		B9	TJ\$118650	8P CONNECTOR
┝╌┤	100					TJS118590	2P CONNECTOR
		OTHERS			C1	TJ\$118590	2P CONNECTOR
<u> </u>			C O OHM 1/4W		l.		2P CONNECTOR
1		ERDS2TC0				TJS118650	8P CONNECTOR
1 1		TES4537	SPRING(TR)	ŀ		TJS118670	10P CONNECTOR
		TES6583	SPRING(IC)SMALL		-	TJS118650	8P CONNECTOR
1			BNC TERMINAL W/SWITCH		C12	103118650	DE CONNECTOR
	M42	TJS1A4341	BNC TERMINAL		222	T 10440040	AD CONNECTOD
1.		1				TJS118610	4P CONNECTOR
	K73	TJS1A5050	CRT SOCKET	ļ		TJS118600	3P CONNECTOR
	K72	TUS118150	BP SOCKET(VTR)	1	D2	TJ\$5A8170	4P CONNECTOR
	M43	TJ56A8020	1P SOCKET		D3	TJS1A8140	8P CONNECTOR
	M44	TJS6A8420	2P SOCKET	l	D4	TJS1A8080	2P CONNECTOR(L-TYEP)
1	M45	TJS8A9040	4P CONNECTOR				
1	1				D5	TJ\$1A8160	10P CONNECTOR
1	K38	TMM16497	CLAMPER	1	D6	TJS1A8090	3P CONNECTOR
1	M46	TMM81416	CORD BAND(SMALL)	l	D7	TJS1A8080	2P CONNECTOR(L-TYEP)
1	M47	TMW13718	LED HOLDER	I	D14	TJ\$5A8530	10P CONNECTOR
1	K30	TUW13917	CONNECTOR BRACKET		D15	TJS5A8150	9P CONNECTOR
1	M48	TUX 14957	TERMINAL BRACKET LEG	ļ		•	
1		1		1	E20	TJ\$1A8110	TELEPHON JACK
1	M49	TXAJTA 2MJQZ	3P CONNECTOR ASSY(A2)].	E23	TJ\$5A8760	6P CONNECTOR
	M50	TXAJTB13MJQZ	2P CONNECTOR ASSY(B13)		E24	TJ\$5A8520	10P CONNECTOR
1	M51	TXAUTD5MJLZ1	10P CONNECTOR ASSY(D5-G5)	l	E25	TJ\$1A8090	3P CONNECTOR
	M52	TXAUTF : MULZ1		l	E26	TJ\$1A8080	2P CONNECTOR(L-TYEP)
1	M53	TXAJTG4MJLZ1	10P CONNECTOR ASSY (G4-W5)				1971
l	14100	I AAO I G TIII DEE .			F1	TJ\$1A8100	4P CONNECTOR
ì	M54	TXAUTL 1MULZ1	8P CONNECTOR ASSY(L1-D1)		F21	TJ\$1A8090	3P CONNECTOR
	M55	TYALITI 18MUL 7	4P CONNECTOR ASSY(L18-A18	3		TUS1A8100	4P CONNECTOR
1	K29	XTN26+10B	SCREW	1	F29	TJS5A8520	10P CONNECTOR
	K21	XTV3+10AFZ	SCREW	1	F33	TJS5A8170	4P CONNECTOR
1	K20	XTV3+10A12	SCREW				
İ	1 120	M143+80	Pone	1	F40	TJS1A8090	3P CONNECTOR
	M56	XTWT983G	SCREW		1	TJC6320	FUSE HOLDER
	WISO	KIWI 3030	SCKE#			TJC6320	FUSE HOLDER
1	К6	XYN3+F12	SCREW	43	G1	TJ\$1A8100	4P CONNECTOR
1	NO.	AYNSTE 12	SCREW		G4	TJS1A8160	10P CONNECTOR
-	A5	TUS 1A9790	6P CONNECTOR				
į.	AS	103123.50	5. 55.111251511	ł	G5	TJS1A8160	10P CONNECTOR
	A6	TJS1A9790	6P CONNECTOR	Į.	G26	TJ\$5A8150	9P CONNECTOR
	1	TJS1A9830	10P CONNECTOR		G27	TJS5A8520	10P CONNECTOR
	A7	TJS118610	4P CONNECTOR			TJS1A7210	1P JACK (HEADPHONE)
1	A8	TJS118670	10P CONNECTOR		L1	TJS118650	8P CONNECTOR
1	A11	TJS118650	8P CONNECTOR	l	- '		
-	A 12	, 55 , 15000		1	L18	TJS118610	4P CONNECTOR
1	A14	TJS6A8160	10P CONNECTOR	1	W1	TJS2A8340	5P CONNECTOR
1	A15	TJS6A8570	9P CONNECTOR	1	W2	TJS2A8350	6P CONNECTOR
ı	A16	TJS6A8560	4P CONNECTOR	1	W3	TJS2A8340	5P CONNECTOR
1	A17	TJS118600	3P CONNECTOR	1	W4	TJS2A8350	6P CONNECTOR
Ţ	A17	TUS118610	4P CONNECTOR	1			
1	7.18			1	W5	TJS1A8160	10P CONNECTOR
1	A22	TJS118610	4P CONNECTOR	1		EFDEN645A61F	CERAMIC FILTER
- 1	A23	TJS5A9490	6P CONNECTOR	1.	S801		SWITCH
	4	TJS6A8160	10P CONNECTOR	1		EVQR4AL13	SWITCH
	A24	TJS6A8570	9P CONNECTOR	1	1	TSE10328	SWITCH
1	A26	TJS6A8160	10P CONNECTOR	1	[,		T 3 . 2
	A27	103040100		1	\$4302	TSE80391	SWITCH
	A29	TJS6A8160	10P CONNECTOR	1	1-	TSE383	SWITCH
	L	TJS6A8560	4P CONNECTOR	1	-	TSE80391	SWITCH
1	A33	TJS118590	2P CONNECTOR	1		TSE80382	SWITCH
1	A35	TJS118590	2P CONNECTOR	1	1	TSE 10430	SWITCH
	A36	TUS118600	3P CONNECTOR	1	75,51	. 52 15 15	
	A40	103 118600	D. GOINTEG FOR	1	55102	TSE10431	SWITCH
İ	A = 4	TJS118590	2P CONNECTOR	1		ESD323251	SWITCH
l	A51	TJS149780	5P CONNECTOR	1	ı	TSS2002D	CRYSTAL OSCILLATOR
	B1	TJS1A9780	6P CONNECTOR	1	X602	T\$\$2026M	CRYSTAL OSCILLATOR
-	B2	TJS1A9780	5P CONNECTOR	1	[
1	B3	TJS1A9790	6P CONNECTOR	1			
	B4	103149750	O. CONTROLOR	1			
}	B5	TJS2A8350	6P CONNECTOR	1			
_	1 85	1,002,5000	<u> </u>				·

Service Manual Colour Video Monitor

BT-H1450Y/YG

G16M Chassis

YG.....U.K. Only

Subject: Parts change

Please file and use this supplement manual together with the service manual for Model No. BT-H1450Y/YG, Order No. VED9105066C2.

We have changed the parts, therefore please see this supplement service manual for the schematic diagram.

Reason: Improvement for power source interfere and performance

Replacement parts list

		Part No.	Description
Ref. No.	OLD	NEW	Description
IC802	UPC2412HF		
IC1603		AN608P	INTEGRATED CIRCUIT
IC5303	MC14052BCP	TC4052BP	INTEGRATED CIRCUIT
IC5401	LM1881N		
Q1612	2SC3311AQ		
Q5418	2SC3311AQ		
Q5422		2SA1309AQ	TRANSISTOR
D372		MA167	DIODE
D373		MA167	DIODE
D374		MA700	DIODE
D375		MA700	DIODE
D376		MA700	DIODE
D377		MA167	DIODE
D617		MA4130H	DIODE

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. v =	Spacial State	And the second second	Part No.	
3 /34	Ref. No.	OLD NEW		Description
	D3324	MA4100L	MA4300M	DIODE
	D3326	MA4100L	MA4270H	DIODE
	D3351	MA165		
	D3362		MA4130H	DIODE
	D3366	MA165		
	D3372		MA165	DIODE
	D3373		MA165	DIODE
	D3374		MA150	DIODE
	D3375		MA4082H	DIODE
	D4308		MA4130H	DIODE
	D5326	MA700		
	D5406	MA165		
	L201	EXCELDR35C		
Δ	L557	TSC925-4		
	L5306	TLU180J186	TLU120J186	PEAKING COIL
	LC1301	TLK66009-1	TLK156060E	DEGAUSS COIL
	LC1303	TLK66056-1	TLK156059E	DEGAUSS COIL
	LC1304	TLK66009-1	TLK156060E	DEGAUSS COIL
	C657		ECEA1EU4R7	E 4.7μF 25V
	C822		ECKD2H471KB5	C 470pF K 500V
	C1344		ECQB1H102JF	P 1000pF J 50V
	C1634		ECEA1EN4R7S	E 4.7μF 25V
	C3327	ECKF1H103ZF		
	C3339	ECEA1CU101	ECEA1CU100	E 10μF 16V
	C3371		ECKF1H103ZF	C 0.01µF Z 50V
	C3372		ECQV1H334JZ	P 0.33μF J 50V
	C3380	-	ECKF1H103ZF	C 0.01µF Z 50V
	C3381		ECKF1H472ZF	C 4700 pF Z 50 V
	C5304	ECEA1CU100	ECEA1CN100S	E 10μF 16V
	C5312	ECEA1HN010S	ECEA1EN3R3S	E 3.3μF 25 V
	C5316	ECQV1H473JZ	ECCF1H151J	C 150pF J 50V
	C5370		ECCF1H151J	C 150pF J 50V
	C5406	ECQV1H333JZ	ECQB1H472JF	P 4700pF J 50V
	C5409	ECCF1H101J	-	,
	C5412	ECQV1H104JZ		
	C5435		ECEA1HN010S	E 1μF 50.V
	C5436		ECQB1H153JF	P 0.015μF J 50V
	C5495		ECEA1CU100	E 10μF 16V
	C5768	ECQV1H823JZ	ECQV1H104JZ	P 0.1μF J 50V

100980

ORDER NO. VED9410195S2

Service Manual Colour Video Monitor

Supplement

BT-H1450Y/YG BT-S1460Y/YG TC-1470Y/YG

YG...U.K. Only

FT-2900@/2900G@

G...U.K. Only

Subject: Revisions to the blue signal only function and the circuits.

The circuit diagrams and Instruction Book have also been revised.

Please file and use this supplement manual along with the service manual for the below table.

This supplement issue contains the modifications of the four models as same content and Supplement Number of these models are shown as follows.

Please use a copy when requiring for each model.

Service Manual for Reference							
Model No. Order No. Supplement No. Chass							
BT-H1450Y/YG	VED9105066C2	Supplement-3	G16M				
BT-S1460Y/YG	VED9109073C2	Supplement-3	G16M				
TC-1470Y/YG	VED9109075C2	Supplement-3	G16M				
FT-2900@/G@	VED9110078C2	Supplement-1	G16M				

Function

OLD	NEW
A white screen is displayed if the screen symptom includes a blue signal when the blue signal only switch has been turned on, and a black screen is displayed when a blue signal is not included.	The screen symptom becomes blue screen when the blue only switch is on.

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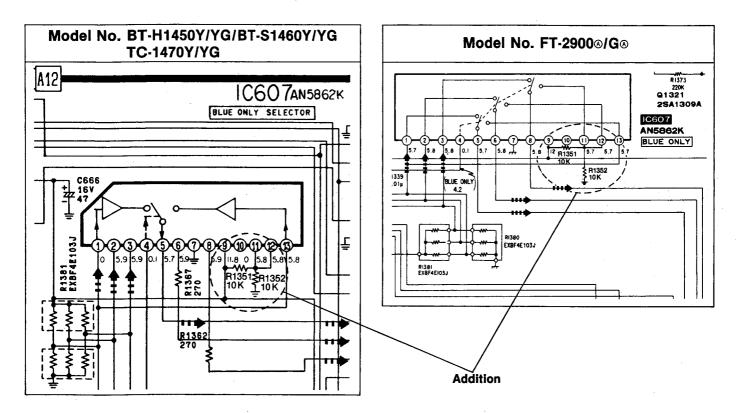
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△ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Schematic diagram (A-P.W. board)

A-P.W. board Part No.	On Page	Model No.	A-P.W. board Part No.	On Page
TNP190103HZ	Supplement-1	TC-1470Y/YG	TNP190103FZ	54
TNP190103DZ	 	FT-2900@/G@	TNP190146ZA	65
		TNP190103HZ Supplement-1 Page 10	TNP190103HZ Supplement-1 TC-1470Y/YG Page 10	TNP190103HZ Supplement-1



Replacement parts list

Dof No	Part No.			
Ref. No.	OLD	NEW	Description	
R1351		ERDS2TJ103	C 10K OHM J 1/4W	
R1352		ERDS2TJ103	C 10K OHM J 1/4W	
M33	TQB510098-2	TQB510098-3	INSTRUCTION BOOK (BT-H1450Y/YG)	
M42	TQB510157-1	TQB510157-2	INSTRUCTION BOOK (BT-S1460Y/YG)	
M39	TQB510159-1	TQB510159-2	INSTRUCTION BOOK (TC-1470Y/YG)	
M52	TQB510161-3	TQB510161-4	INSTRUCTION BOOK (FT-2900@/G@)	

Application time

	Model No.	Serial No.
	BT-H1450Y/YG	FE4140001~
Application time	BT-S1460Y/YG	FE4110001~
(Serial No.)	TC-1470Y/YG	FE4110001~
	FT-2900@/G@	FE4240001~

ORDER NO. VED9410195S2

ervice Ma Supplement

Colour Video Monitor

BT-H1450Y/YG BT-S1460Y/Y TC-1470Y/Y

YG...U.K. Only

FT-2900@/2900G

G... U.K. Only

Subject: Revisions to the blue signal only function and the circuits. The circuit diagrams and Instruction Book have also been revised.

Please file and use this supplement manual along with the service manual for the below table.

This supplement issue contains the modifications of the four models as same content and Supplement Number of these models are shown as follows.

Please use a copy when requiring for each model.

Service Manual for Reference			
Model No.	Order No.	Supplement No.	Chassis No.
BT-H1450Y/YG	VED9105066C2	Supplement-3	G16M
BT-S1460Y/YG	VED9109073C2	Supplement-3	G16M
TC-1470Y/YG	VED9109075C2	Supplement-3	G16M
FT-2900@/G@	VED9110078C2	Supplement-1	G16M

Function

OLD	NEW		
A white screen is displayed if the screen symptom includes a blue signal when the blue signal only switch has been turned on, and a black screen is displayed when a blue signal is not included.	The screen symptom becomes blue screen when the blue only switch is on.		

nasonic

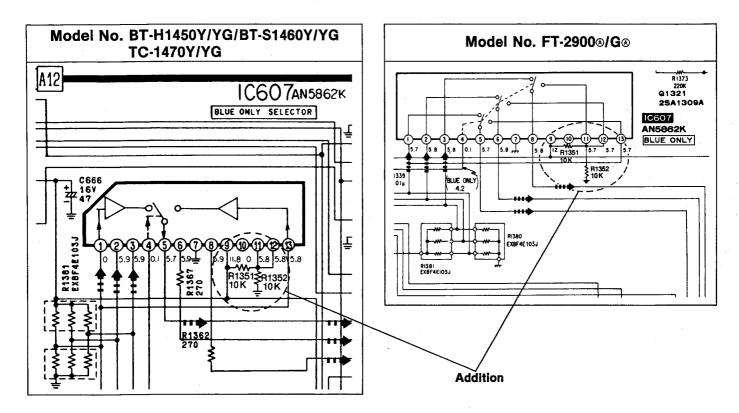
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△ WARNING

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Schematic diagram (A-P.W. board)

Model No.	A-P.W. board Part No.	On Page	Model No.	A-P.W. board Part No.	On Page
BT-H1450Y/YG	TNP190103HZ	Supplement-1 Page 10	TC-1470Y/YG	TNP190103FZ	54
BT-S1460Y/YG	TNP190103DZ	58	FT-2900@/G@	TNP190146ZA	65
B1-01-001/14	1141 130 10002	50			



Replacement parts list

Dat Na	Part No.			
Ref. No.	OLD	NEW	Description	
R1351		ERDS2TJ103	C 10K OHM J 1/4W	
R1352		ERDS2TJ103	C 10K OHM J 1/4W	
M33	TQB510098-2	TQB510098-3	INSTRUCTION BOOK (BT-H1450Y/YG)	
M42	TQB510157-1	TQB510157-2	INSTRUCTION BOOK (BT-S1460Y/YG)	
M39	TQB510159-1	TQB510159-2	INSTRUCTION BOOK (TC-1470Y/YG)	
M52	TQB510161-3	TQB510161-4	INSTRUCTION BOOK (FT-2900@/G@)	

Application time

	Model No.	Serial No.
	BT-H1450Y/YG	FE4140001~
Application time	BT-S1460Y/YG	FE4110001~
(Serial No.)	TC-1470Y/YG	FE4110001~
	FT-2900@/G@	FE4240001~

	Part No.		art No.	Description		
	Ref. No.	OLD	NEW	Description		
	R540	ERD25FJ8R2K	ERQ14AJ8R2	F 8.2 OHM J 1/4W		
	R682	* <u></u>	ERDS2TJ101	C 100 OHM J 1/4W		
	R696		ERDS2TJ821	C 820 OHM J 1/4W		
Δ	R888	ERG2SJ683	4.			
Δ	R892		ERG2SJ683	M 68KOHM J 2W		
	R1317	ERD25FJ222K	ERD25FJ821K	C 820 OHM J 1/4W		
	R1346	ERDS2TJ152	ERDS2TJ102	C 1KOHM J 1/4W		
	R1347	ERDS2TJ152	ERDS2TJ102	C 1KOHM J 1/4W		
	R1358	ERDS2TJ681	ERDS2TJ121	C 120 OHM J 1/4W		
	R1371		ERDS2TJ221	C 220 OHM J 1/4W		
	R1615	ERDS2TJ222	ERDS2TJ331	C 330 OHM J 1/4W		
	R1677	ERDS2TJ102	ERDS2TJ332	C 3.3K OHM J 1/4W		
	R1680		ERDS2TJ330	C 33 OHM J 1/4W		
	R3319	ERD25FJ223K	ERD25FJ683K	C 68K OHM J 1/4W		
	R3338	ERDS2TJ562	ERDS2TJ332	C 3.3K OHM J 1/4W		
	R3339	EVTF4CA00B14	EVTF4CA00B54	CONTROL B 50K OHM		
	R3344	EVTF4CA00B53	EVTF4CA00B54	CONTROL B 50K OHM		
	R3348	ERDS2TJ332	ERDS2TJ102	C 1KOHM J 1/4W		
	R3349	EVTF4CA00B53	EVTF4CA00B54	CONTROL B 50K OHM		
	R3352	ERDS2TJ333				
	R3354	EVTF4CA00B33	EVTF4CA00B54	CONTROL B 50K OHM		
	R3378	EROS2CKF1801	EROS2CKF3301	M 3.3K OHM F 1/4W		
	R3381	EVTF4CA00B25	EVTF4CA00B15	CONTROL B 100K OHM		
	R3421	ERDS2TJ471	EROS2CKF4700	M 470 OHM F 1/4W		
	R3422	ERDS2TJ471	EROS2CKF3900	M 390 OHM F 1/4W		
	R3423	ERDS2TJ471	EROS2CKF4300	M 430 OHM F 1/4W		
	R3440	ERDS2TJ222	ERDS2TJ102	C 1KOHM J 1/4W		
•	R3453		ERDS2TJ101	C 100 OHM J 1/4W		
	R3495		ERDS2TJ391	C 390 OHM J 1/4W		
	R3496	1 2 <u>- 1 1</u>	ERDS2TJ223	C 22K OHM: J = 1/4W		
-	R3497		ERDS2TJ103	C 10K OHM J 1/4W		
	R3498	**: a' <u></u>	ERDS2TJ822	C 8.2K OHM J 1/4W		
	R4318	ERDS2TJ471	ERDS2TJ391	C 390 OHM J 1/4W		
	R4319	ERDS2TJ561	ERDS2TJ151	C ≥ 150 OHM : J 1/4W		
	R5341	ERDS2TJ103	· .			
	R5382	ERDS2TJ124	ERDS2TJ683	C 68K OHM J 1/4W		
	R5383	ERDS2TJ124	ERDS2TJ683	C 68K OHM J 1/4W		
_	R5405	ERDS2TJ151	ERDS2TJ271	C 270 OHM J 1/4W		
	R5407	ERDS2TJ124	ERDS2TJ334	C 330 K OHM J 1/4W		

Ref. No.		Part No.	- Description	
nei. No.	OLD	NEW		
R5413	ERDS2TJ392		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R5424	ERDS2TJ102			
R5425	ERDS2TJ681	ERDS2TJ392	C 3.9K OHM J 1/4W	
R5426	ERDS2TJ153	ERDS2TJ123	C 12K OHM J 1/4W	
R5429	ERDS2TJ334			
R5430	ERDS2TJ682	ERDS2TJ563	C 56K OHM J 1/4W	
R5431	ERDS2TJ102	-	4,	
R5432	ERDS2TJ103	ERDS2TJ223	C 22K OHM J 1/4W	
R5454	ERDS2TJ473	ERDS2TJ563	C 56K OHM J 1/4W	
R5475	ERDS2TJ222			
R5476	ERDS2TJ103	ERDS2TJ331	C 330 OHM J 1/4W	
R5477	ERDS2TJ472	ERDS2TJ561	C 560 OHM J 1/4W	
R5497		ERDS2TJ392	C 3.9K OHM J 1/4W	
R5498		ERDS2TJ154	C 150K OHM J 1/4W	
R5499		ERDS2TJ222	C 2.2K OHM J 1/4W	
R5784	· —	ERDS2TJ152	C 1.5K OHM J 1/4W	
K1	TKE1316B01	TKE1316J01	ESCUTCHEON ASS'Y	
K2	TKU589100	TKU589101	REAR COVER	
КЗ	TKC131127	TKC131127-1	METAL CABINET	
K4	TKP1313851-2	TKP1313852-2	TERMINAL BOARD PANEL	
K30	TUW13917	TUW13917-1	CONNECTOR BRACKET	
K34	TMW13110	TMW13110-2	FRONT BRACKET	
K35	TMX13101	TMX13101-1	CHASSIS BRACKET (M)	
K57	TNP110144	TNP110144BZ	PC BOARD W/COMPONENT (L)	
K60	TNP110315ZB	TNP110315AB	PC BOARD W/COMPONENT (P)	
K61	TNP190103BZ	TNP190103HZ	PC BOARD W/COMPONENT (A	
M14	TXAJTA8MJLZ	TXAJTA8MJRZ	2P-2P CONNECTOR ASS'Y	
M30	TPD139327	TPD139327-1	FILLER (FRONT)	
M33	TQB510098	TQB510098-1	INSTRUCTION BOOK	
M34	TQB817002-1		SAFETY SHEET	
M37	TQD6718063-1	1	WARRANTY CARD	
M40		TQF87256	WARNING LABEL	
M41		TQF81735	GROUND MARK LABEL	
A40	TJS118600			
F40	TJS1A8090			
 				

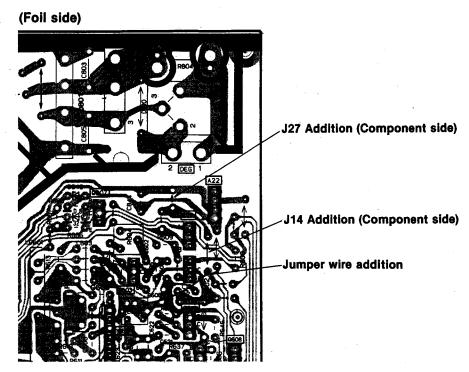
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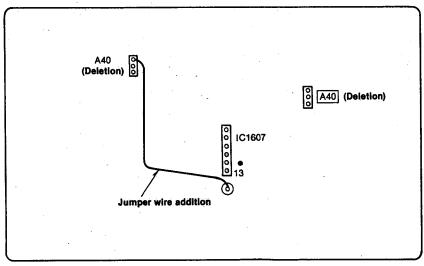
Circuit boards

(On page 35, 36)

A-P.W. board TNP190103HZ



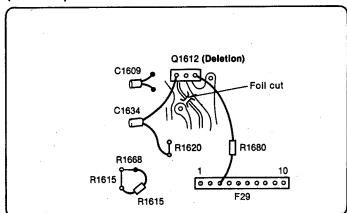
(Component side)



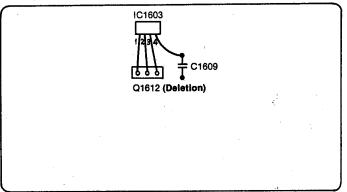
(On page 42, 43)

F-P.W. board TNP110144BZ

(Foil side)



(Component side)



Correction of measurements and adjustments

(On page 31)

CUT OFF ADJUSTMENT (L-P.W. board)

1. EQUIPMENT TO USED Oscilloscope R Low Light Video Generator 2. INITIALIZE CONDITION (D-P.C. board)

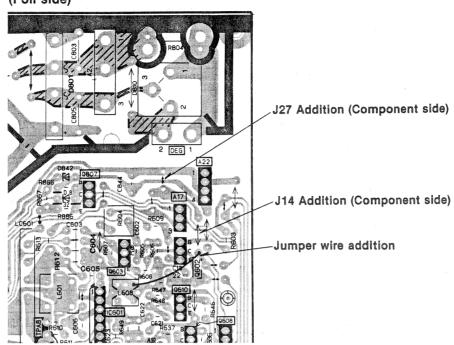
Replace schematic diagram page 57 to 68 with following ones.

Circuit boards

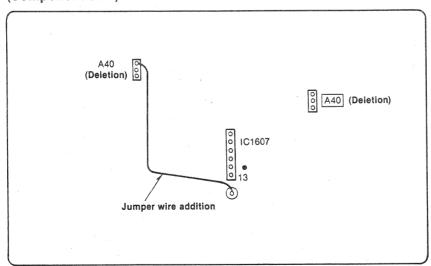
(On page 35, 36)

A-P.W. board TNP190103HZ

(Foil side)



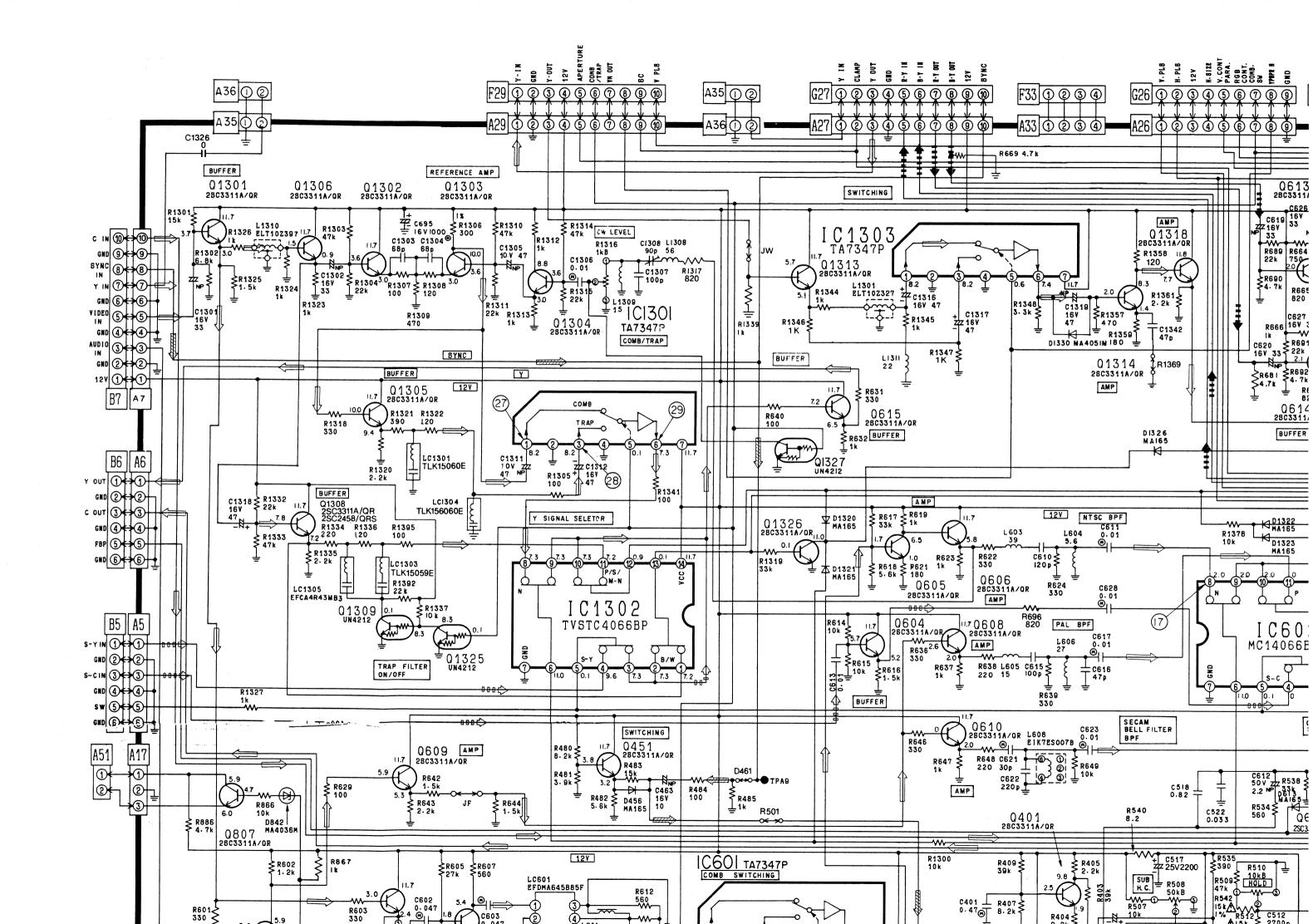
(Component side)

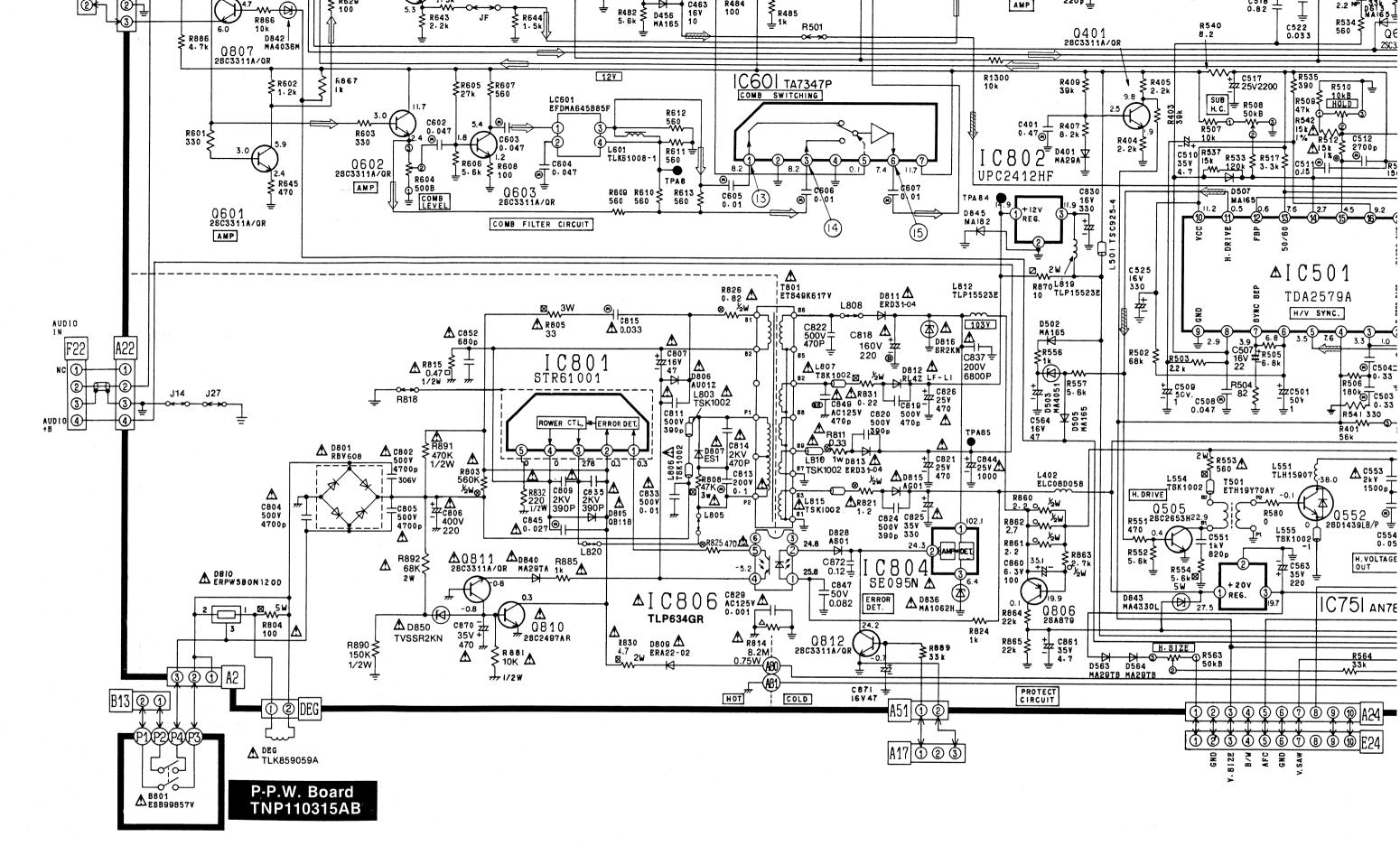


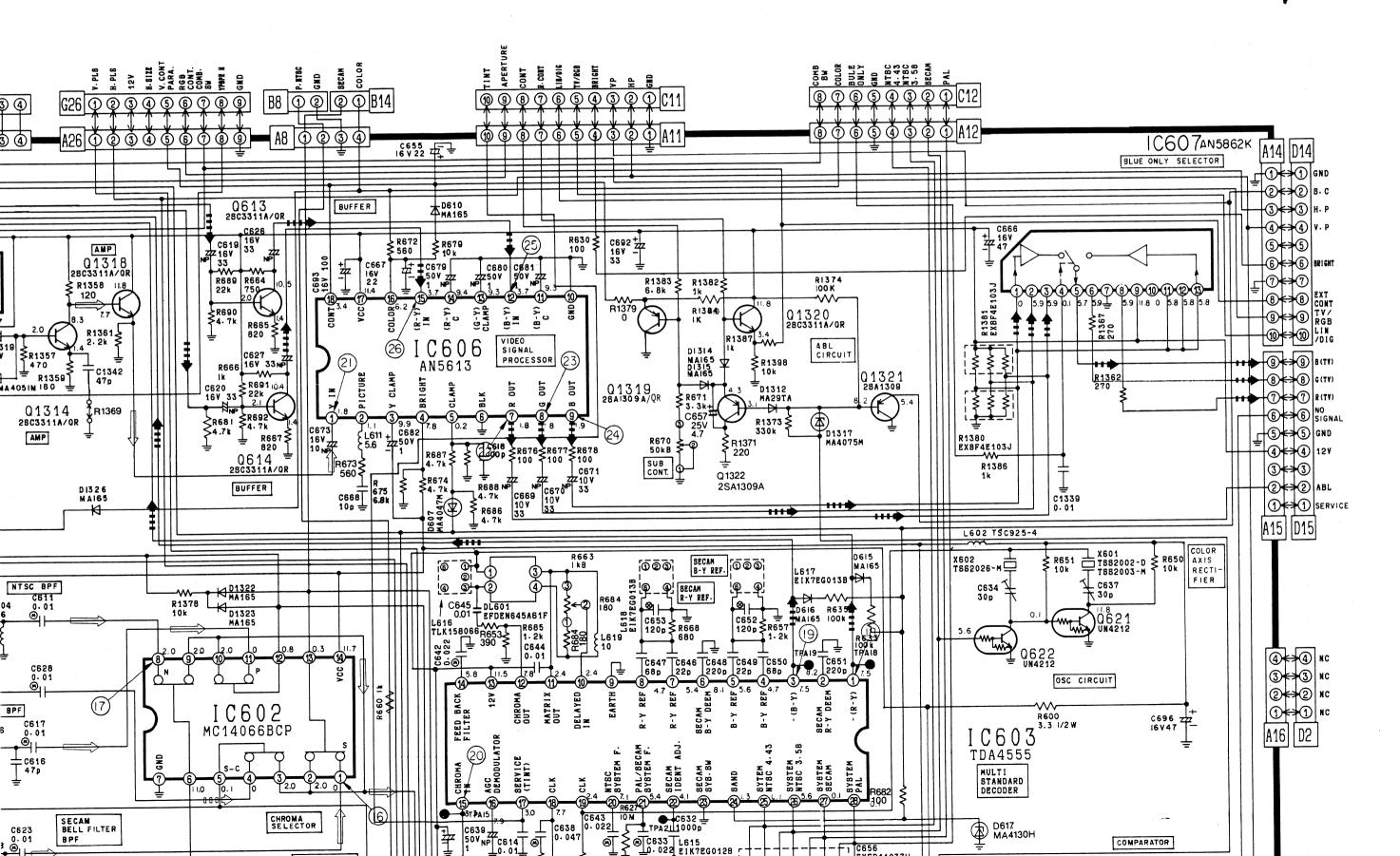
F-P.V

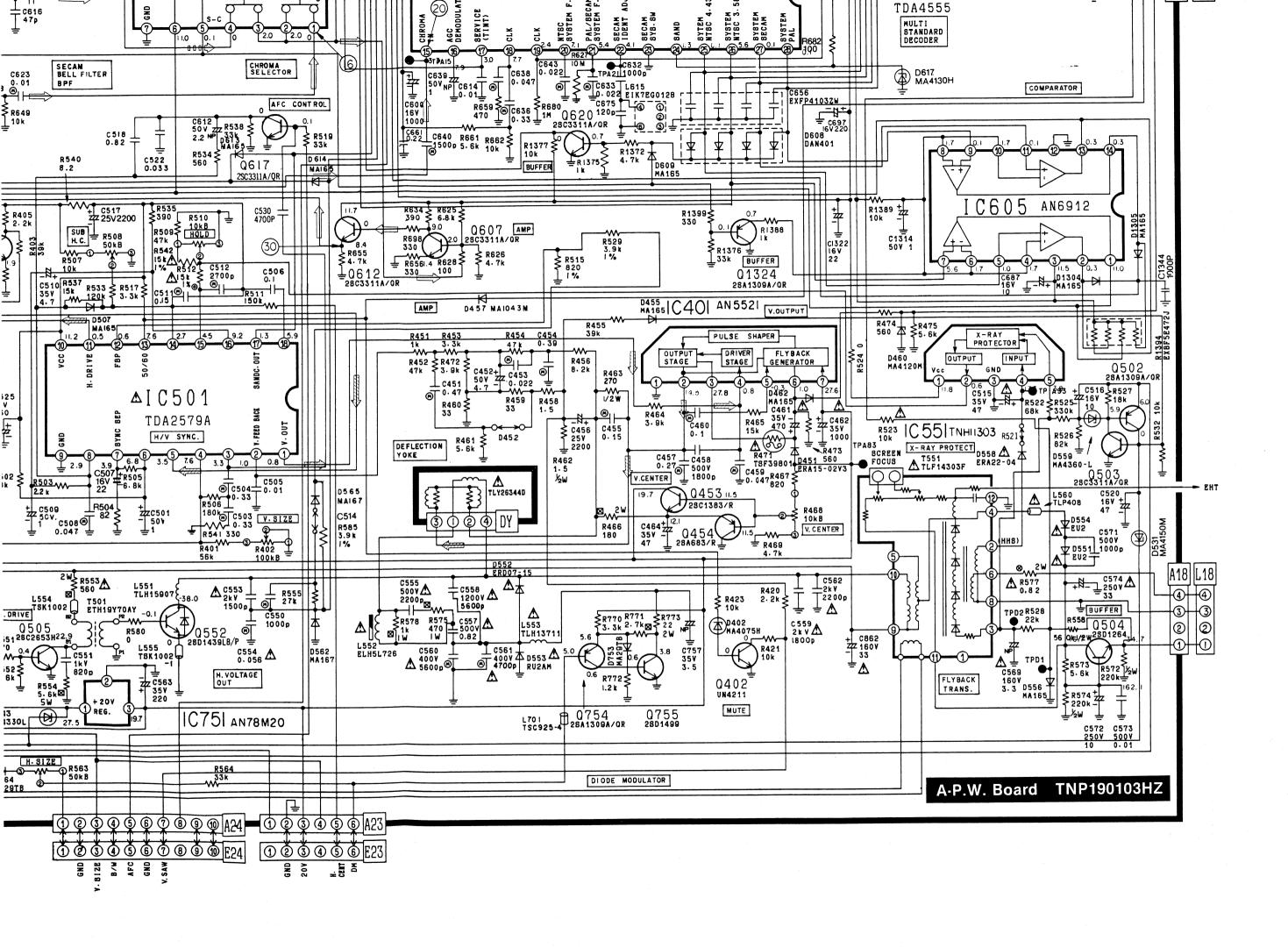
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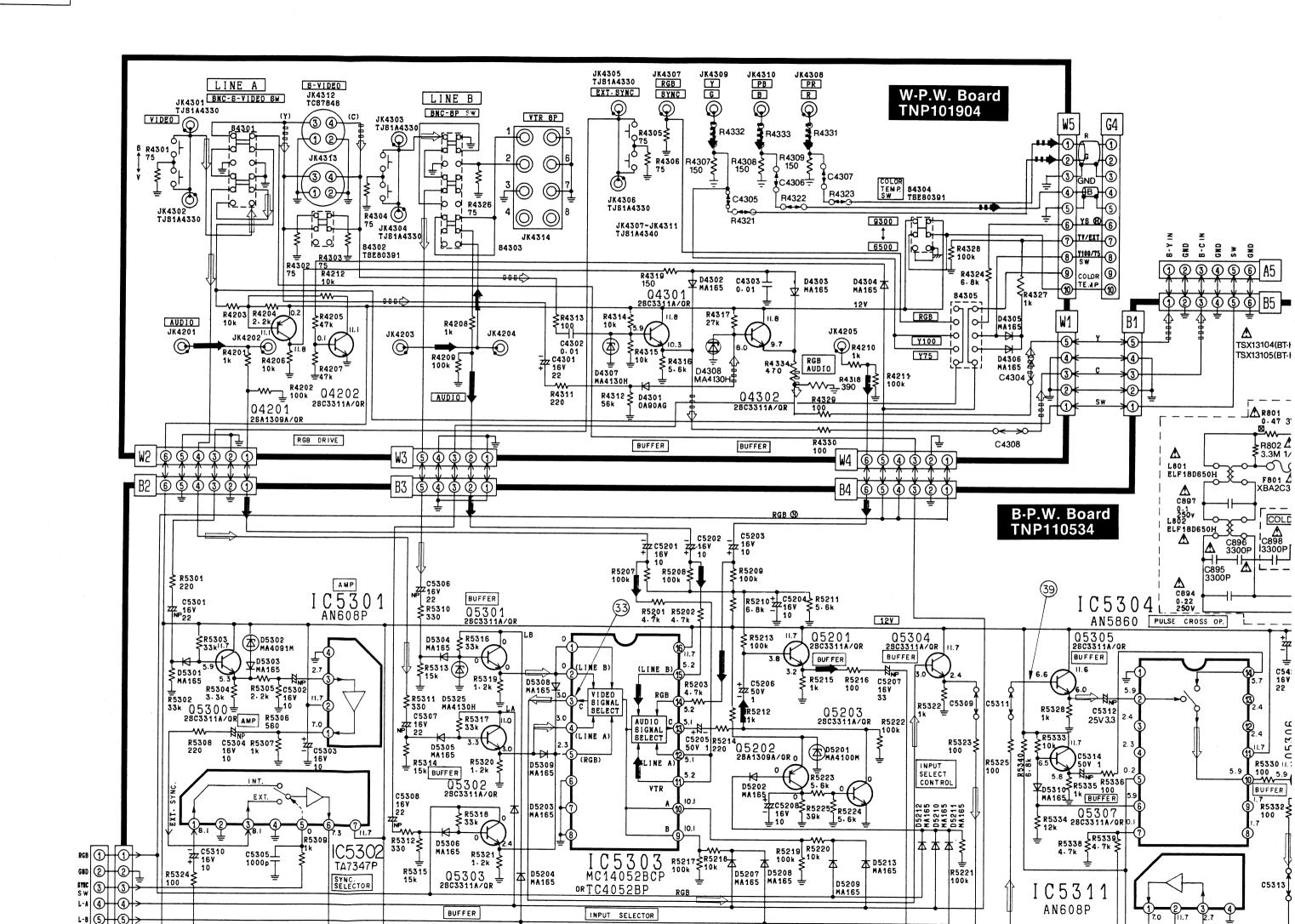
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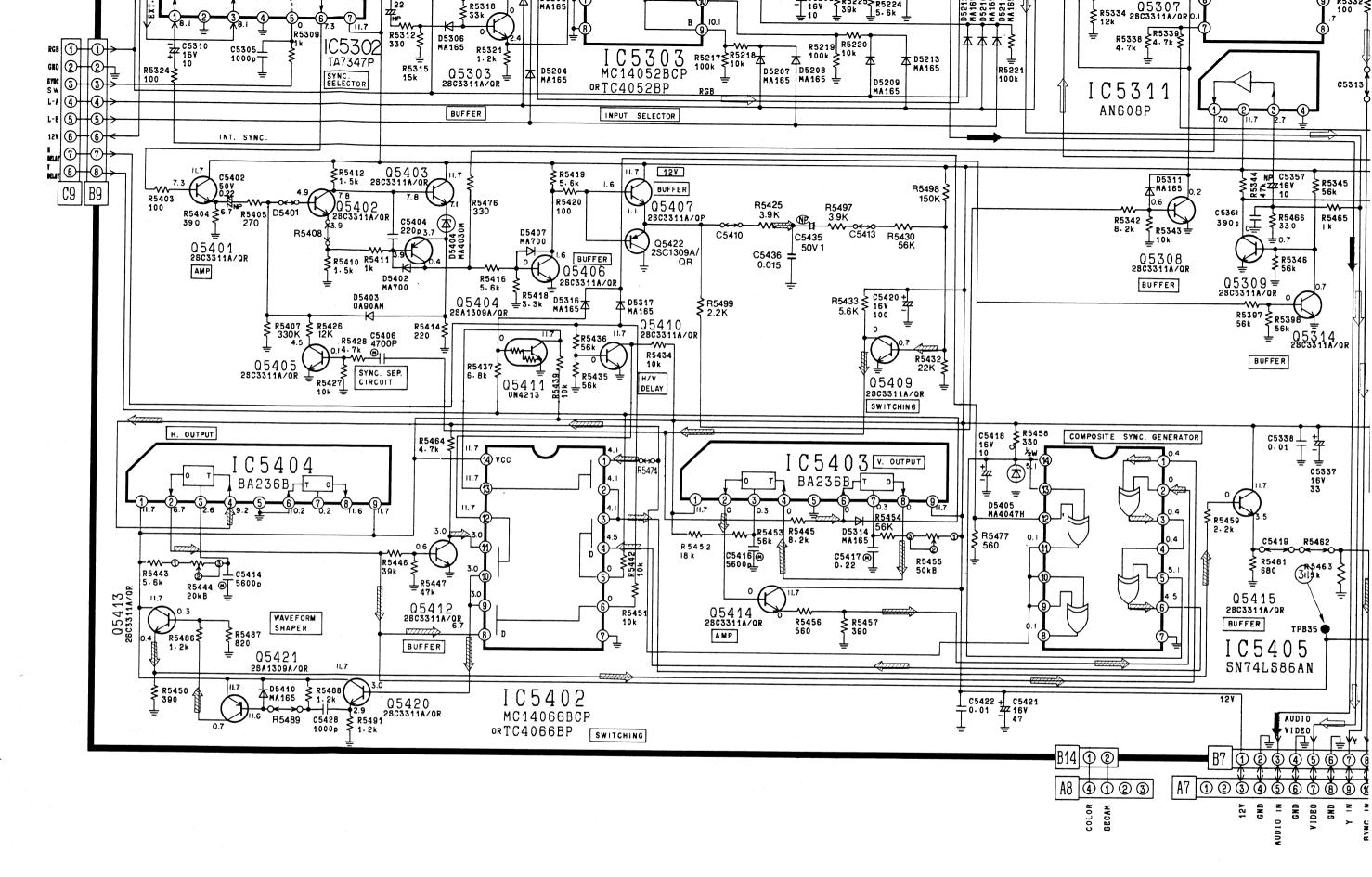


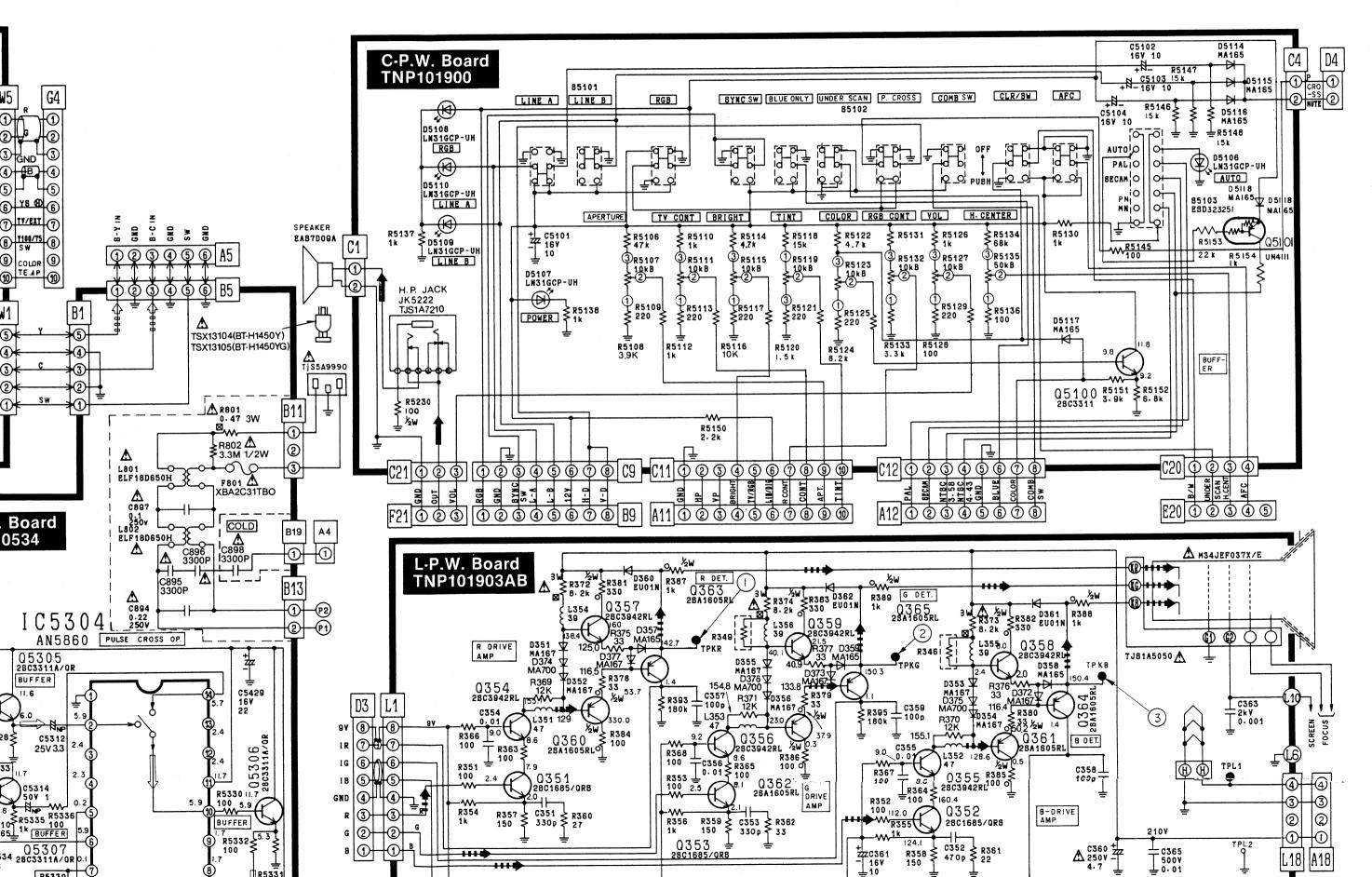


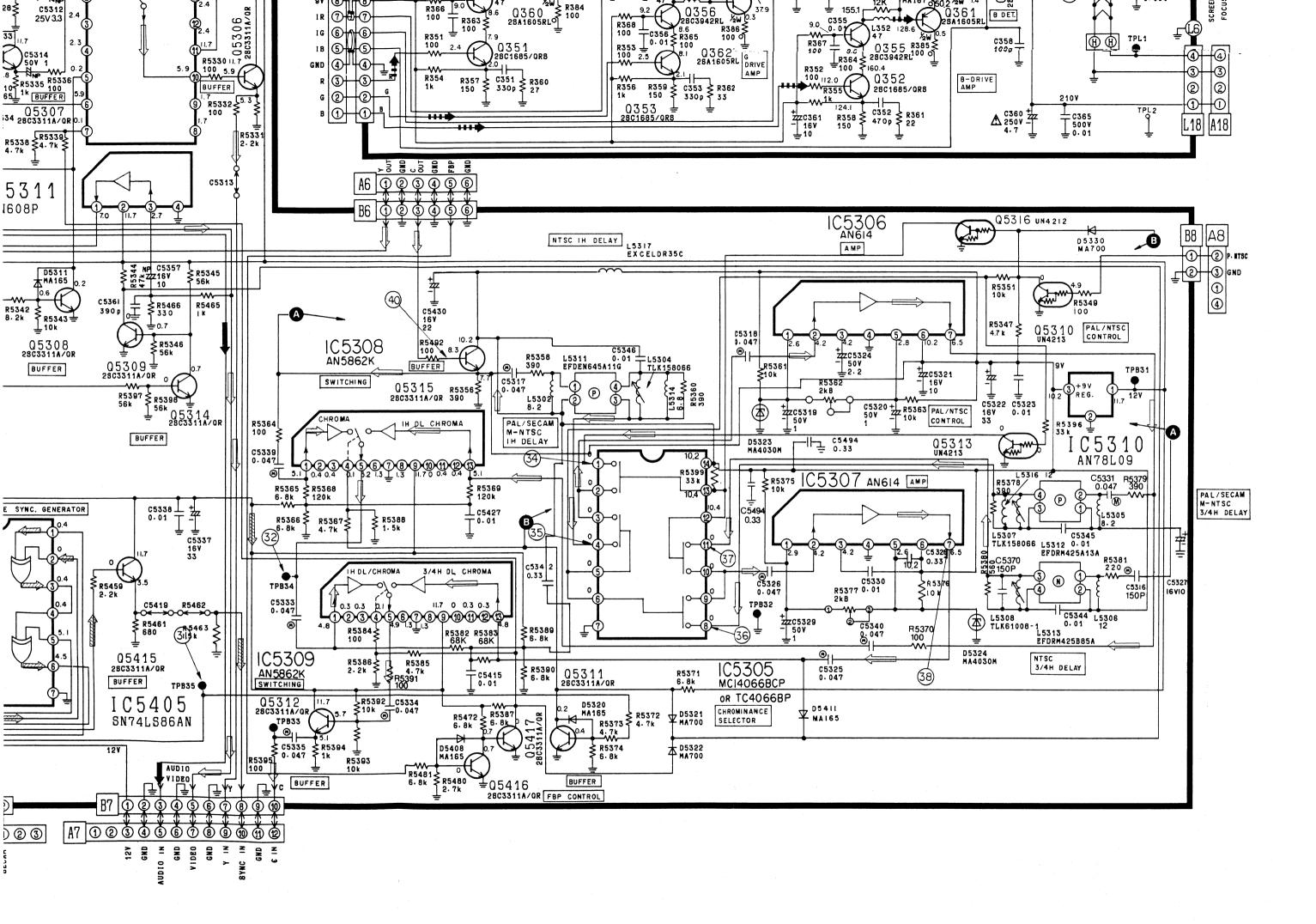


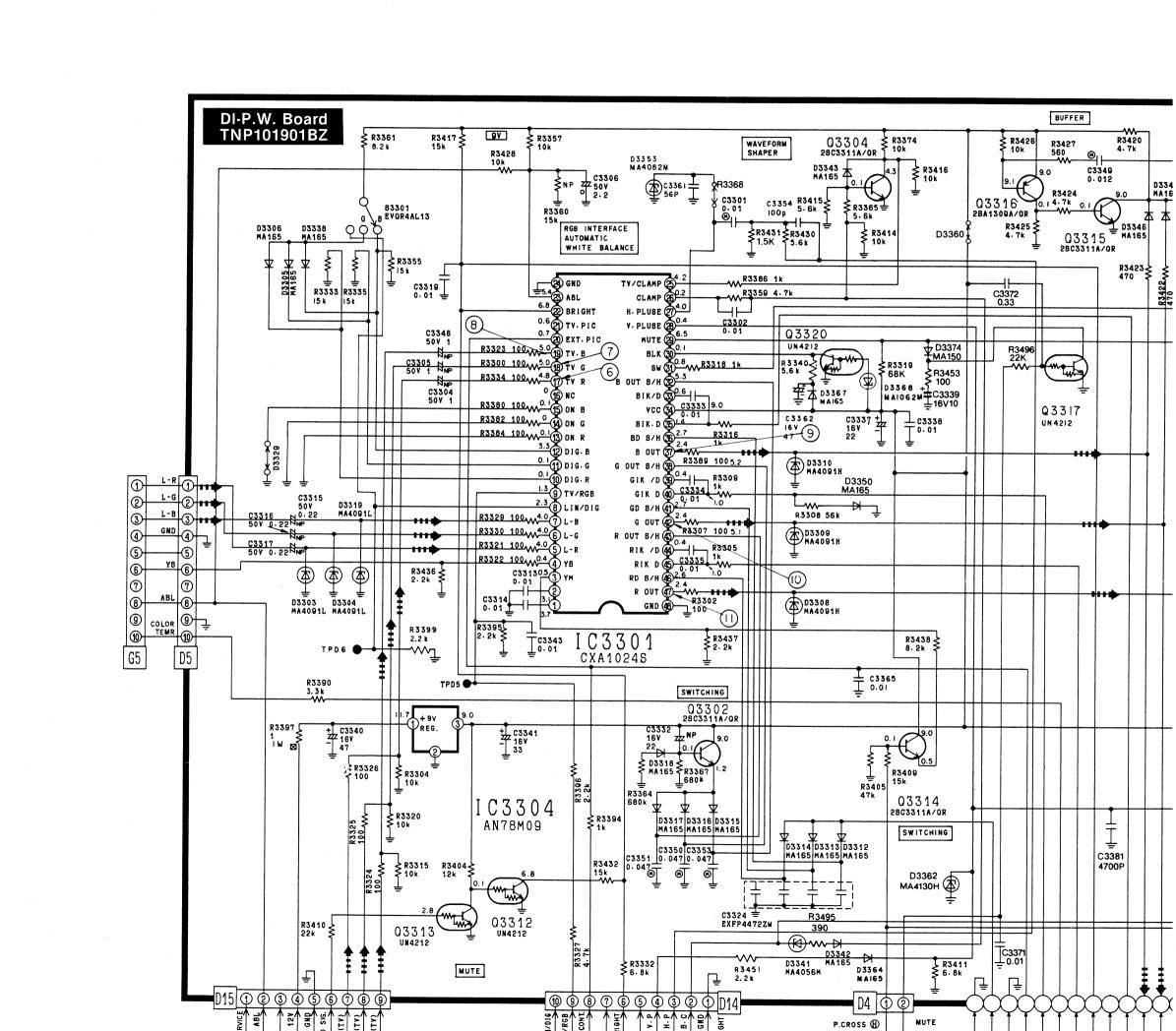


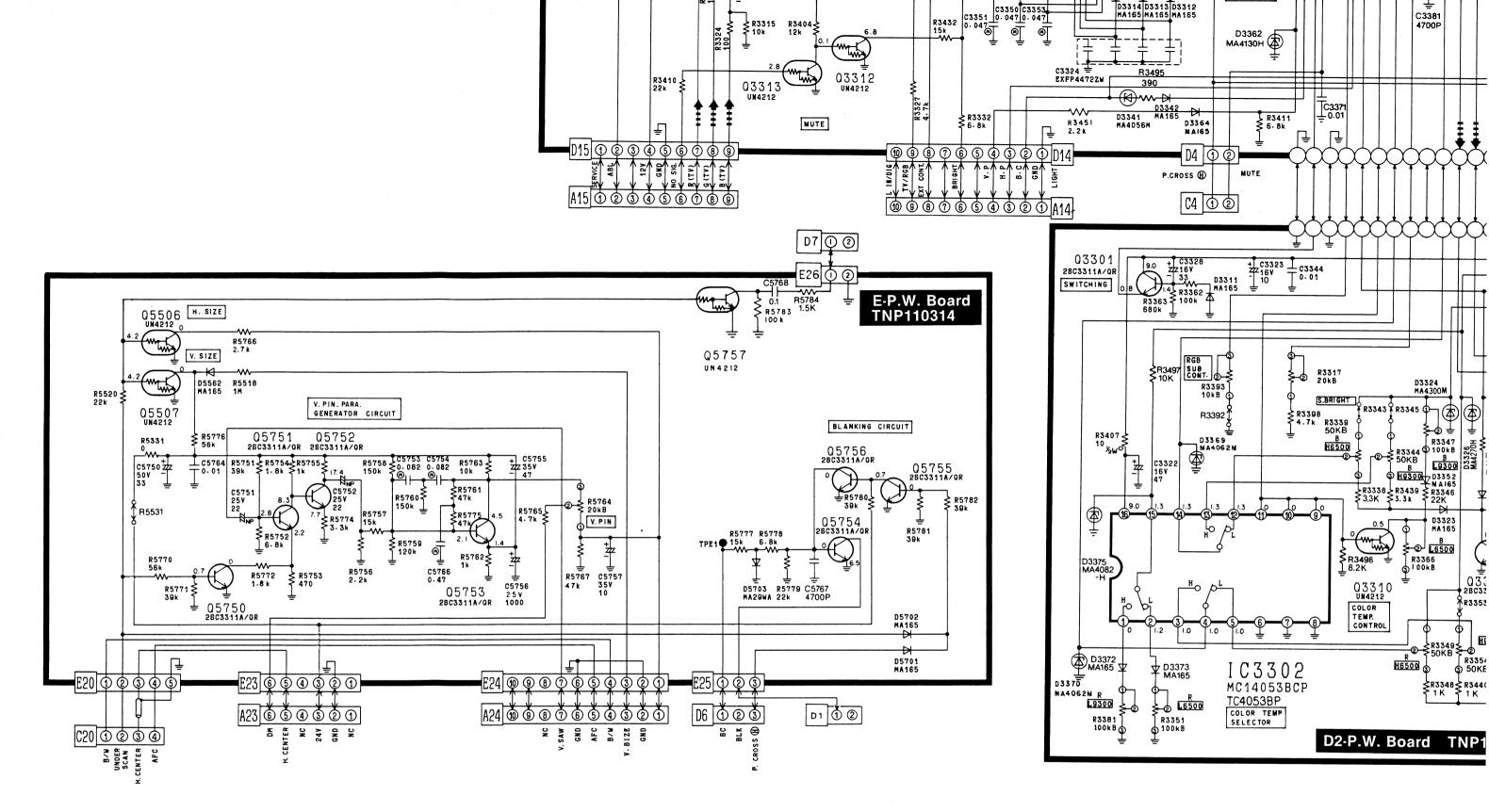












Supl.

